

ACOE Estimating

Developing Supportable hourly rates for construction equipment.

Presented by: Shane Schieck

Western Federal Lands Highway Division

Winter Training – January 16, 2009

Why use ACOE Estimating?

Independent Government Estimates (IGE) require equipment hourly rates to be supportable and defensible.

Even if the ACOE rate is too low for the area or the conditions, it provides a place to start negotiations.

Scenarios

- Standard conditions with relatively new equipment (Up to 5 years old)
- Severe conditions, changing economic climate, or older equipment
- Leased equipment

Standard Conditions – Relatively New Equipment

Hourly equipment rates looked up directly in the ACOE rate book.

ACOE rate book hourly rates do not include –

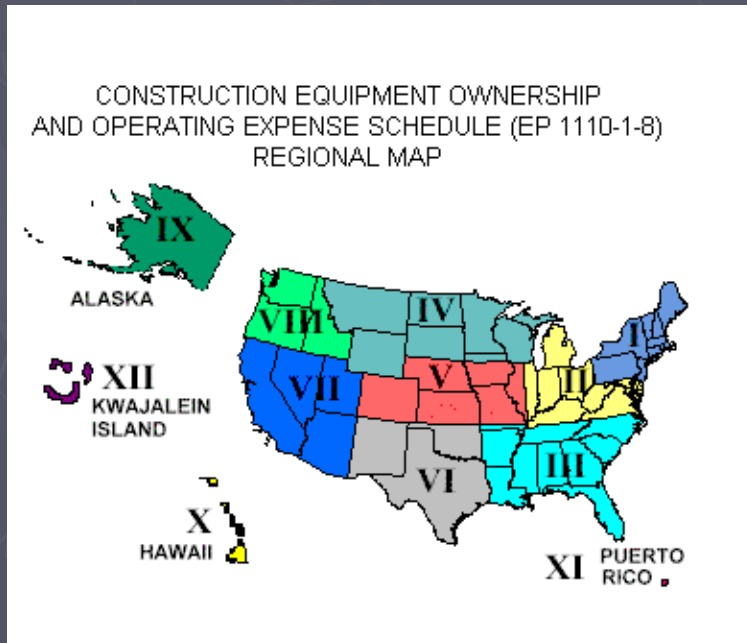
- Labor Costs
- Profit
- Overhead
- Licensing fees
- Security

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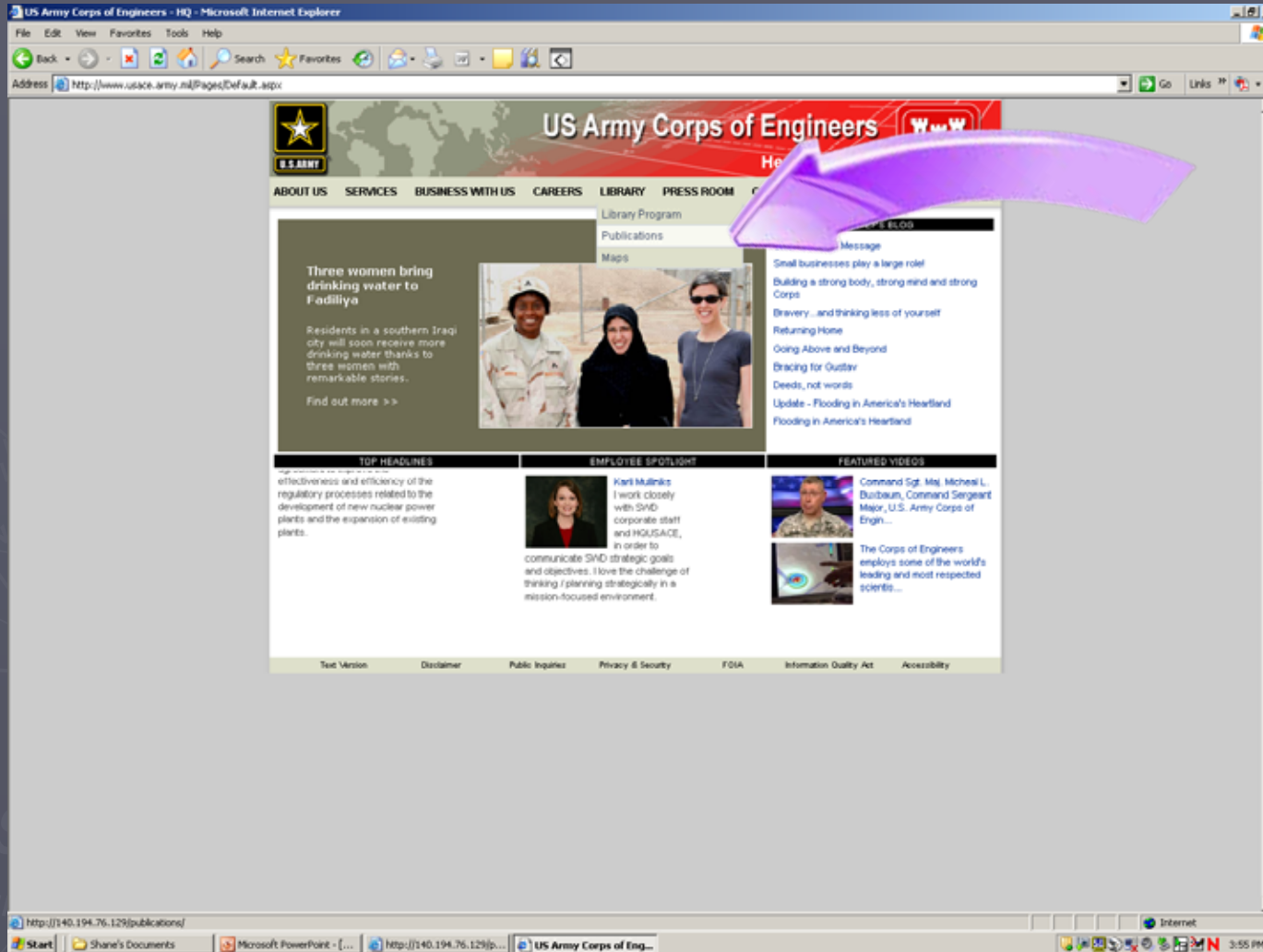
Publication Number: **EP 1110-1-8**

Construction Equipment Ownership and Operating Expense Schedule



The region that the project is located in will determine which volume of the EP 1110-1-8 pamphlet should be used. Region 8 should use volume 8 of the pamphlet and so on.

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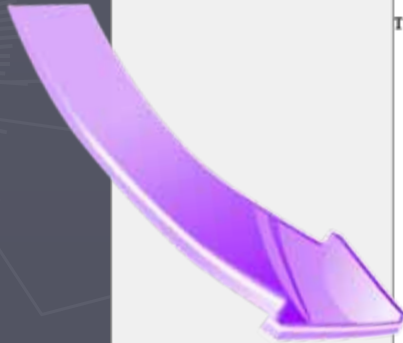


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EP 5-1-1	343		Lessons Learned in Search Action Program	01 Sep 02
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Construction Equipment
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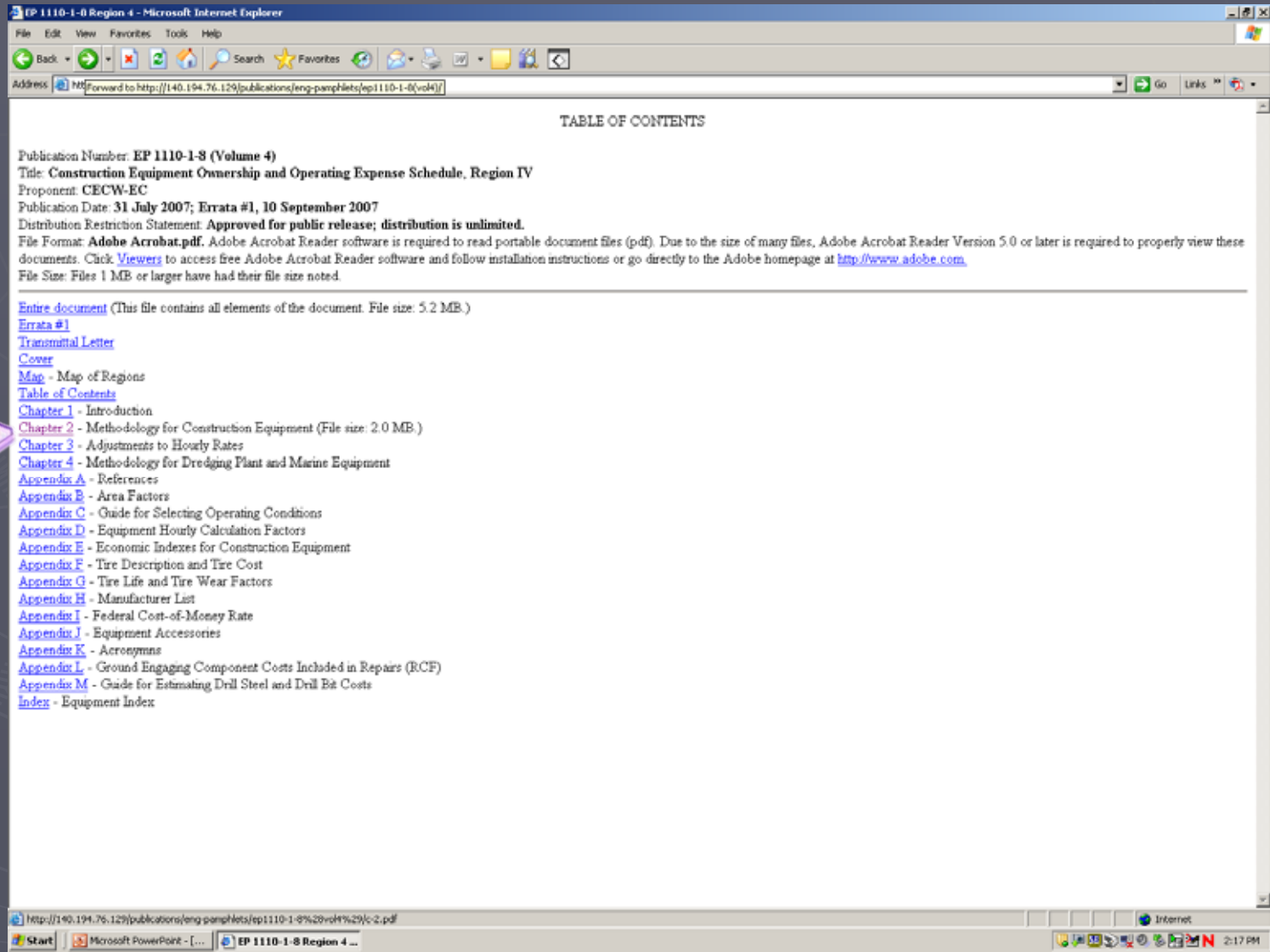
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EP 1110-1-8	343		Construction Equipment Ownership and Operating Expense Schedule (Region II)	01 Jul 07
EP 1110-1-8	343		Construction Equipment Ownership and Operating Expense Schedule (Region III)	01 Jul 07
EP 1110-1-8	343		Construction Equipment Ownership and Operating Expense Schedule (Region IV)	01 Jul 07
EP 1110-1-8	343		Construction Equipment Ownership and Operating Expense Schedule (Region V)	01 Jul 07
EP 1110-1-8	343		Construction Equipment Ownership and Operating Expense Schedule (Region VI)	01 Jul 07
EP 1110-1-8	343		Construction Equipment Ownership and Operating Expense Schedule (Region VII)	01 Jul 07
EP 1110-1-8	343		Construction Equipment Ownership and Operating Expense Schedule (Region VIII)	01 Jul 07
EP 1110-1-8	343		Construction Equipment Ownership and Operating Expense Schedule (Region IX)	01 Jul 07
EP 1110-1-8	343		Construction Equipment Ownership and Operating Expense Schedule (Region X)	01 Jul 07
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TABLE OF CONTENTS

Publication Number: **EP 1110-1-8 (Volume 4)**
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[Errata #1](#)
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[Map](#) - Map of Regions
[Table of Contents](#)
[Chapter 1](#) - Introduction
[Chapter 2](#) - Methodology for Construction Equipment (File size: 2.0 MB)
[Chapter 3](#) - Adjustments to Hourly Rates
[Chapter 4](#) - Methodology for Dredging Plant and Marine Equipment
[Appendix A](#) - References
[Appendix B](#) - Area Factors
[Appendix C](#) - Guide for Selecting Operating Conditions
[Appendix D](#) - Equipment Hourly Calculation Factors
[Appendix E](#) - Economic Indexes for Construction Equipment
[Appendix F](#) - Tire Description and Tire Cost
[Appendix G](#) - Tire Life and Tire Wear Factors
[Appendix H](#) - Manufacturer List
[Appendix I](#) - Federal Cost-of-Money Rate
[Appendix J](#) - Equipment Accessories
[Appendix K](#) - Acronyms
[Appendix L](#) - Ground Engaging Component Costs Included in Repairs (RCF)
[Appendix M](#) - Guide for Estimating Drill Steel and Drill Bit Costs
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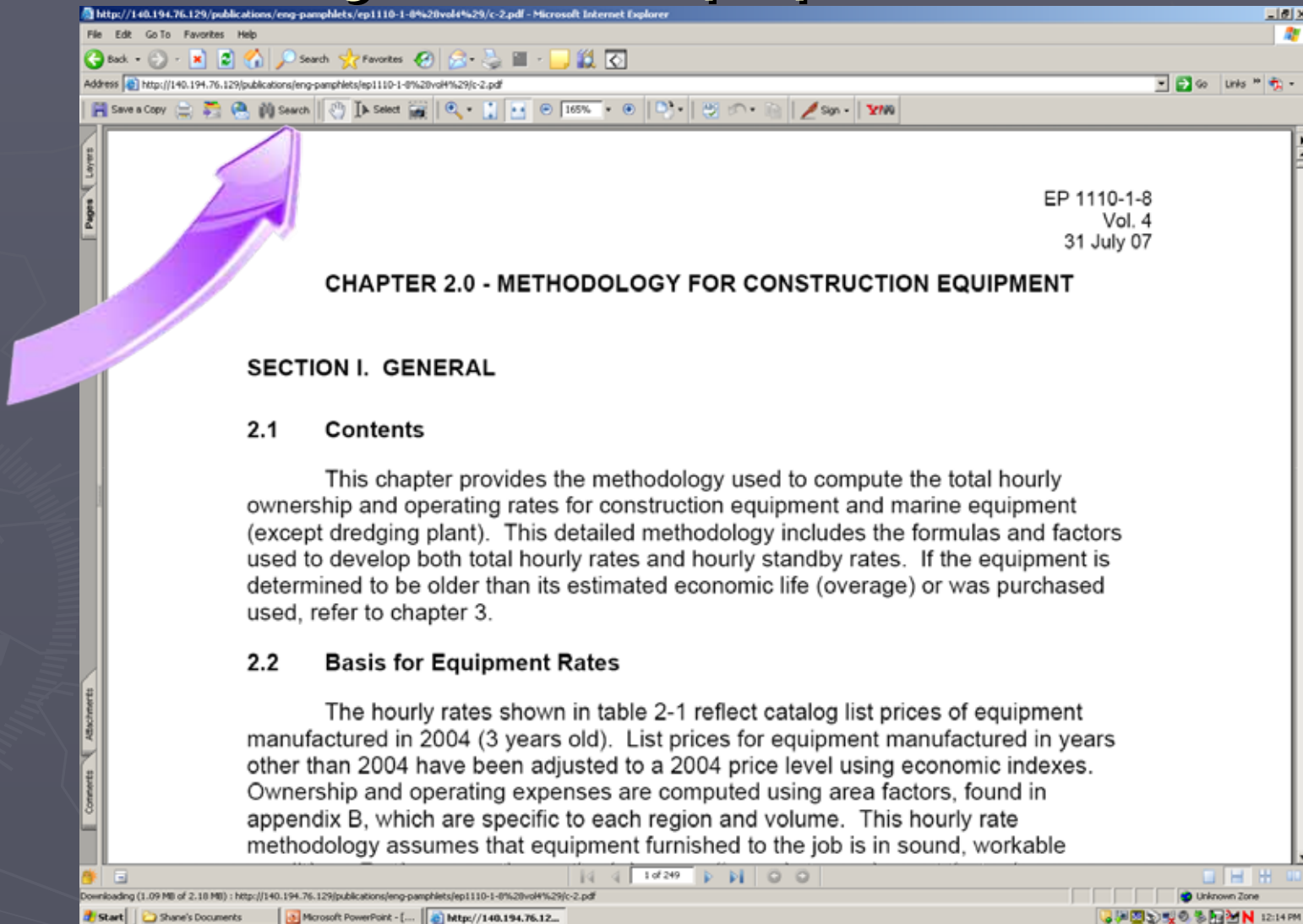
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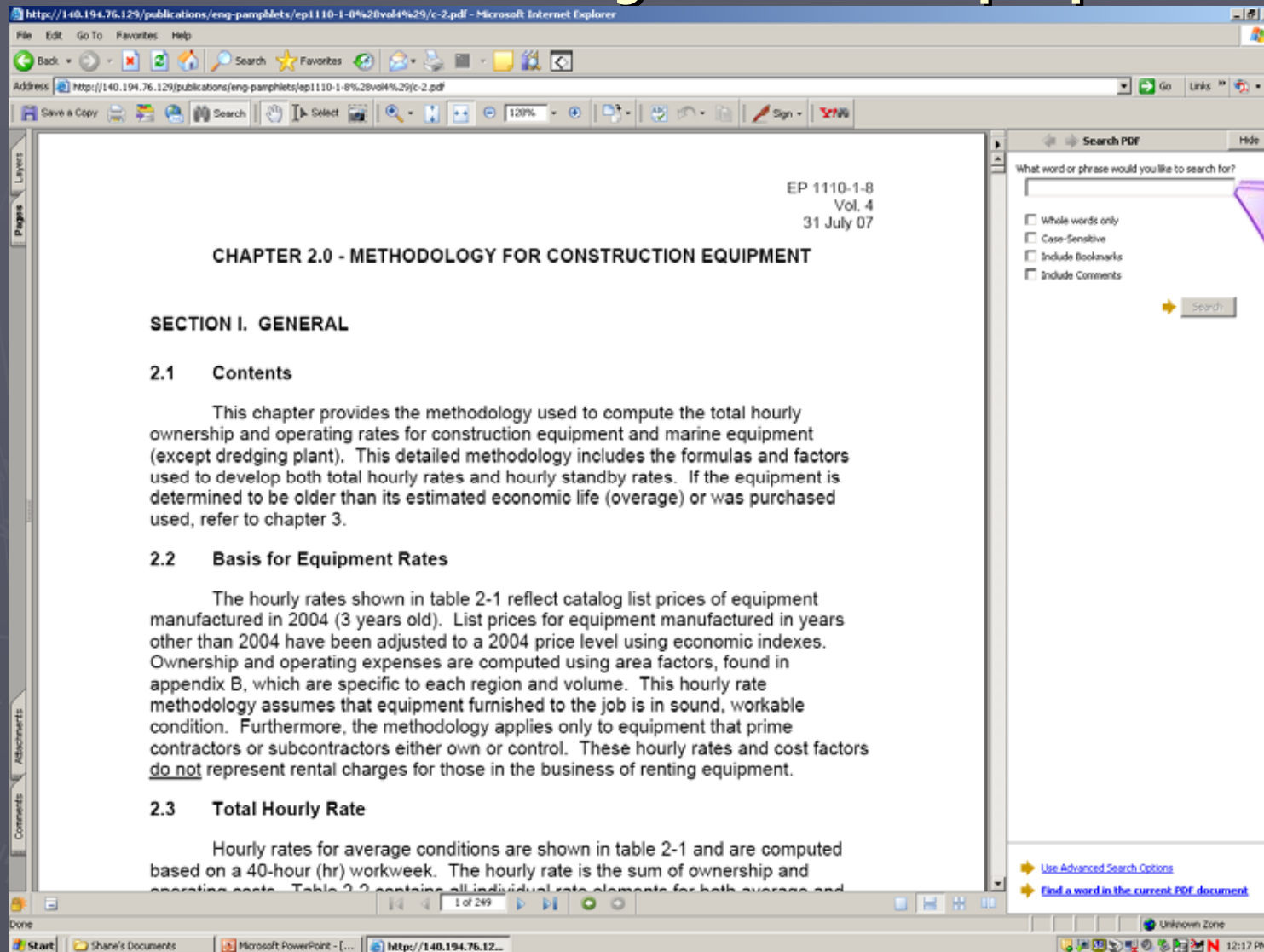
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EP 1110-1-8
Vol. 4
31 July 07

CHAPTER 2.0 - METHODOLOGY FOR CONSTRUCTION EQUIPMENT

SECTION I. GENERAL

2.1 Contents

This chapter provides the methodology used to compute the total hourly ownership and operating rates for construction equipment and marine equipment (except dredging plant). This detailed methodology includes the formulas and factors used to develop both total hourly rates and hourly standby rates. If the equipment is determined to be older than its estimated economic life (overage) or was purchased used, refer to chapter 3.

2.2 Basis for Equipment Rates

The hourly rates shown in table 2-1 reflect catalog list prices of equipment manufactured in 2004 (3 years old). List prices for equipment manufactured in years other than 2004 have been adjusted to a 2004 price level using economic indexes. Ownership and operating expenses are computed using area factors, found in appendix B, which are specific to each region and volume. This hourly rate methodology assumes that equipment furnished to the job is in sound, workable condition. Furthermore, the methodology applies only to equipment that prime contractors or subcontractors either own or control. These hourly rates and cost factors do not represent rental charges for those in the business of renting equipment.

2.3 Total Hourly Rate

Hourly rates for average conditions are shown in table 2-1 and are computed based on a 40-hour (hr) workweek. The hourly rate is the sum of ownership and operating costs. Table 2-2 contains all individual rate elements for both average and

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EP 1110-1-8
Vol. 4
10 Sept 07

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

CAT	ID NO.	MODEL	EQUIPMENT DESCRIPTION	ENGINE HORSEPOWER FUEL TYPE		VALUE (TEV) 2004 (\$)	TOTAL HOURLY RATES (\$/HR)		ADJUSTABLE ELEMENTS			CWT
				MAIN	CARRIER		AVERAGE	STANDBY	DEPR	FCM	FUEL	
L40			CATERPILLAR INC. (MACHINE DIVISION) (continued)									
	L40CA14	IT620 I	LOADER, WHEEL, INTEGRATED TOOL CARRIER, 4.25 CY LOADER; 13,670 LB @ 12.42' HIGH, FORK LIFT; OR 5,040 LB @ 22.67' HIGH, MATERIAL HANDLING ARM	200 HP	D-4f	\$249,447	67.28	14.80	18.42	5.99	14.67	464
			Komatsu America International Company									
	L40K012	WA180-3 PT	LOADER, WHEEL, INTEGRATED TOOL CARRIER, 2.25 CY LOADER; 4,964 LB @ 12.00' HIGH, FORK LIFT; OR 2,306 LB @ 16.50' HIGH, MATERIAL HANDLING ARM	138 HP	D-4f	\$130,788	37.64	7.71	9.55	2.93	9.32	230
L50			LOADERS / BACKHOE, WHEEL TYPE									
			SUBCATEGORY 0.00 LOADERS / BACKHOE, WHEEL TYPE									
			CATERPILLAR INC. (MACHINE DIVISION)									
	L50CA001	416D	LOADER / BACKHOE, WHEEL, 1.00 CY FRONT END BUCKET, 18" DIP, 4.5 CF, 14.9 DIGGING DEPTH, 412	78 HP	D-4f	\$66,670	19.75	3.89	4.80	1.49	4.40	162
	L50CA004	440D	LOADER / BACKHOE, WHEEL, 1.50 CY FRONT END BUCKET, 30" DIP, 19 CF, 17.7 DIGGING DEPTH, 412	110 HP	D-4f	\$135,049	35.88	7.91	9.76	3.03	6.20	193
			CASE CORPORATION									
	L50CS005	580 SUPER M SERIES 2	LOADER / BACKHOE, WHEEL, 1.00 CY FRONT END BUCKET, 24" DIP, 6.2 CF, 14.25 DIGGING DEPTH, 414	90 HP	D-4f	\$65,365	24.44	5.00	6.17	1.91	5.08	143
	L50CS006	590 SUPER M SERIES 2	LOADER / BACKHOE, WHEEL, 1.30 CY FRONT END BUCKET, 24" DIP, 6.4 CF, 18 DIGGING DEPTH, 414, EXTEND-A-HOE	90 HP	D-4f	\$102,630	20.61	5.99	7.37	2.30	5.63	153
			JCB INC.									
	L50JC001	2125 (H9G)	LOADER / BACKHOE, WHEEL, 0.80 CY FRONT END BUCKET, 24" DIP, 4.3 CF, 12 DIGGING DEPTH, 414	67 HP	D-4f	\$64,490	10.38	3.78	4.60	1.44	3.78	120

2-121

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- BACKHOE, WHEEL TYPE CATERPILLAR INC.
- BACKHOE, WHEEL, 1.00 CY FRONT 78 HP D-
- BACKHOE, WHEEL, 1.50 CY FRONT 110 HP D-
- BACKHOE, WHEEL, 1.00 CY FRONT 90 HP D-
- BACKHOE, WHEEL, 1.30 CY FRONT 90 HP D-
- BACKHOE, WHEEL, 0.80 CY FRONT 67 HP D-
- BACKHOE, WHEEL, 1.25 CY FRONT 92 HP D-
- BACKHOE, WHEEL, 1.40 CY FRONT 100 HP C
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- BACKHOE, WHEEL, 1.40 CY FRONT 100 HP C
- BACKHOE, ATTACHMENTS SUBCATEGORY 0.
- BACKHOE, ATTACHMENTS KENT DEMOLITION
- BACKHOE, ATTACHMENT, ASR RAM, 175 CF
- BACKHOE, ATTACHMENT, ASR RAM, 250 CF
- BACKHOE, ATTACHMENT, HYDRA \$12,293.4
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EP 1110-1-8
Vol. 4
10 Sept 07

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

CAT	REGION 4			ENGINE HORSEPOWER FUEL TYPE		VALUE (TEV) 2004 (\$)	TOTAL HOURLY RATES (\$/HR)		ADJUSTABLE ELEMENTS			CWT		
	ID.NO.	MODEL	EQUIPMENT DESCRIPTION	MAIN	CARRIER		AVERAGE	STANDBY	DEPR	FCCM	FUEL			
H25	HYDRAULIC EXCAVATORS, CRAWLER MOUNTED													
	SUBCATEGORY	0.10	0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS)											
	CATERPILLAR INC. (MACHINE DIVISION)													
	H25CA034	301.8	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 3,800 LBS, 0.04 CY BUCKET, 7.50' MAX DIGGING DEPTH			17 HP	D-off	\$35,403	9.37	2.47	3.32	0.81	1.24	37
	H25CA035	303 CR	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 7,500 LBS, 0.11 CY BUCKET, 9.08' MAX DIGGING DEPTH			25 HP	D-off	\$42,514	11.63	2.97	3.99	0.97	1.82	73
	H25CA036	305 CR	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 10,800 LBS, 0.17 CY BUCKET, 11.08' MAX DIGGING DEPTH			42 HP	D-off	\$70,395	19.31	4.91	6.60	1.61	3.06	109
	Komatsu America International Company													
	H25KM018	PC20MR-2	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 4,800 LBS, 0.05 CY BUCKET, 6'11" MAX DIGGING DEPTH			20 HP	D-off	\$41,775	11.04	2.91	3.92	0.95	1.46	51
	H25KM021	PC40MR-2	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 10,000 LBS, 0.18 CY BUCKET, 12'9" MAX DIGGING DEPTH			39 HP	D-off	\$56,174	15.87	3.92	5.27	1.28	2.84	106
	H25KM022	PC58UU-3	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 11,400 LBS, 0.29 CY BUCKET, 13'1" MAX DIGGING DEPTH			40 HP	D-off	\$71,819	19.45	5.01	6.73	1.64	2.91	115
	H25KM023	PC78US-6	HYDRAULIC EXCAVATOR, CRAWLER, 6,200 LBS, 0.37 CY BUCKET, 12'4" MAX DIGGING DEPTH			54 HP	D-off	\$88,518	24.37	6.17	8.30	2.02	3.93	159
	MELROE COMPANY/BOBCAT													
	H25ME001	323	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 3,600 LBS, 0.04 CY BUCKET, 7'6" MAX DIGGING DEPTH			13 HP	D-off	\$28,118	7.43	1.96	2.64	0.64	0.97	37
	H25ME002	331	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 7,200 LBS, 0.10 CY BUCKET, 10'2" MAX DIGGING DEPTH			40 HP	D-off	\$40,948	12.54	2.85	3.84	0.93	2.91	72

98 of 249

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12:20 PM

The hourly rates given under the “Average” and the “Standby” columns under the “Total Hourly Rates” heading are base rates that can be adjusted for accuracy.

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Chapter Three of the pamphlet covers reasons to adjust the hourly rates. These reasons include but are not limited to:

- Equipment of different age than table 2-1
- Rate adjustments for overage equipment
- Actual work hours exceed 40 hours per week
- Changes in the cost of money rate
- Changes in FUEL cost
- Adjustments to FOG cost

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The “Average” and “Standby” rates given in Table 2.1 are applicable only to equipment manufactured in the base year of the pamphlet (in the 2007 edition of the pamphlet the base year is 2004). This information is given in Section 2.2 of the pamphlet.

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EP 1110-1-8
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10 Sept 07

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	H25KM021	PC40MR-2	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 10,000 LBS, 0.18 CY BUCKET, 12'9" MAX DIGGING DEPTH			39 HP	D-off	\$56,174	15.87	3.92	5.27	1.28	2.84	106
	H25KM022	PC58UU-3	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 11,400 LBS, 0.29 CY BUCKET, 13'1" MAX DIGGING DEPTH			40 HP	D-off	\$71,819	19.45	5.01	6.73	1.64	2.91	115
	H25KM023	PC78US-6	HYDRAULIC EXCAVATOR, CRAWLER, 6,200 LBS, 0.37 CY BUCKET, 12'4" MAX DIGGING DEPTH			54 HP	D-off	\$88,518	24.37	6.17	8.30	2.02	3.93	159
	MELROE COMPANY/BOBCAT													
	H25ME001	323	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 3,600 LBS, 0.04 CY BUCKET, 7'6" MAX DIGGING DEPTH			13 HP	D-off	\$28,118	7.43	1.96	2.64	0.64	0.97	37
	H25ME002	331	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 7,200 LBS, 0.10 CY BUCKET, 10'2" MAX DIGGING DEPTH			40 HP	D-off	\$40,948	12.54	2.85	3.84	0.93	2.91	72

98 of 249

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The hourly rates are adjusted for the year of manufacture for the equipment by applying a factor from Table 3.1 to the “DEPR” and the “FCCM” values listed under the “Adjustable Elements” column.

Standard Conditions – Relatively New Equipment

EP 1110-1-8
Vol. 8
31 July 07

Table 3-1 Equipment Age Adjustment Factors for Ownership Cost

CATEGORY SUB	REGION 8 TYPE OF EQUIPMENT	Life in Years				Year Purchased New																
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
		2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990			
C65	0.00	CONCRETE VIBRATORS																				
C70	0.00	CRANES, GANTRY & STRADDLE																				
C75	0.00	CRANES, HYDRAULIC, SELF-PROPELLED																				
C80	0.00	CRANES, HYDRAULIC, TRUCK MOUNTED																				
C80	0.01	UNDER 26 TON																				
C80	0.02	26 TON THRU 65 TON																				
C80	0.03	66 TON THRU 125 TON																				
C80	0.04	OVER 125 TON																				
C85	0.00	CRANES, MECHANICAL, LATTICE BOOM, CRAWLER MOUNTED																				
C85	0.11	DRAGLINE, CLAMSHELL, 0 THRU 1.0 CY																				
C85	0.12	DRAGLINE, CLAMSHELL, OVER 1.0 CY THRU 2.5 CY																				
C85	0.13	DRAGLINE, CLAMSHELL, OVER 2.5 CY THRU 5.0 CY																				
C85	0.14	DRAGLINE, CLAMSHELL, OVER 5.0 CY																				
C85	0.21	LIFTING, 0 THRU 25 TON																				
C85	0.22	LIFTING, 26 TON THRU 50 TON																				
C85	0.23	LIFTING, 51 TON THRU 150 TON																				
C85	0.24	LIFTING, OVER 150 TON																				
C90	0.00	CRANES, MECHANICAL, LATTICE BOOM, TRUCK MOUNTED																				
C90	0.01	UNDER 26 TON																				
C90	0.02	26 TON THRU 65 TON																				
C90	0.03	66 TON THRU 125 TON																				
C90	0.04	OVER 125 TON																				
C95	0.00	CRANES, TOWER																				
D10	0.00	DRILLS, AIR/HYDRAULIC,CRAWLER MTD,6" THRU 6.5" DIA HOLE (Add cost for drill steel and bit wear)																				
D10	0.10	DRILLS, AIR TRACK (Add cost for drill steel and bit wear)																				
D10	0.20	DRILLS, HYDRAULIC TRACK (Add cost for drill steel and bit wear)																				
D15	0.00	DRILLS, HORIZONTAL BORING & GROUND PIERCING (Add cost for drill steel and bit wear)																				

In Table 3.1 the adjustment factors for the equipment rates are listed by the equipment type and the “Year Purchased New” – or year of manufacture.

Standard Conditions – Relatively New Equipment

The formulas for adjusting the equipment rates for the age of the equipment are as follows:

$$\text{Adjusted Average rate} = (\text{Average rate} - \text{DEPR} - \text{FCCM}) + (\text{Adjustment factor} * [\text{DEPR} + \text{FCCM}])$$

$$\text{Adjusted Standby rate} = \text{Standby rate} * \text{Adjustment factor}$$

Standard Conditions – Relatively New Equipment

The adjustments to the “Average” and “Standby” rates for overage equipment (equipment beyond its economic life) are done in the same manner and with the same formulas as the rate adjustments for age. The piece of equipment is looked up in Table 3.1 and the lowest factor provided in the table is used as the adjustment factor.

Standard Conditions – Relatively New Equipment

The “Average” and “Standby” rates given in Table 2.1 are applicable only for a 40 hour work week. The formulas for adjusting the equipment rates for different work weeks are as follows:

$$\text{Adjusted Average rate} = (\text{Average rate} - \text{FCCM}) + (\text{FCCM} * [40 \text{ hrs} / \text{hrs worked per week}])$$

$$\text{Adjusted Standby rate} = (\text{Standby rate} - \text{FCCM}) + (\text{FCCM} * [40 \text{ hrs} / \text{hrs worked per week}])$$

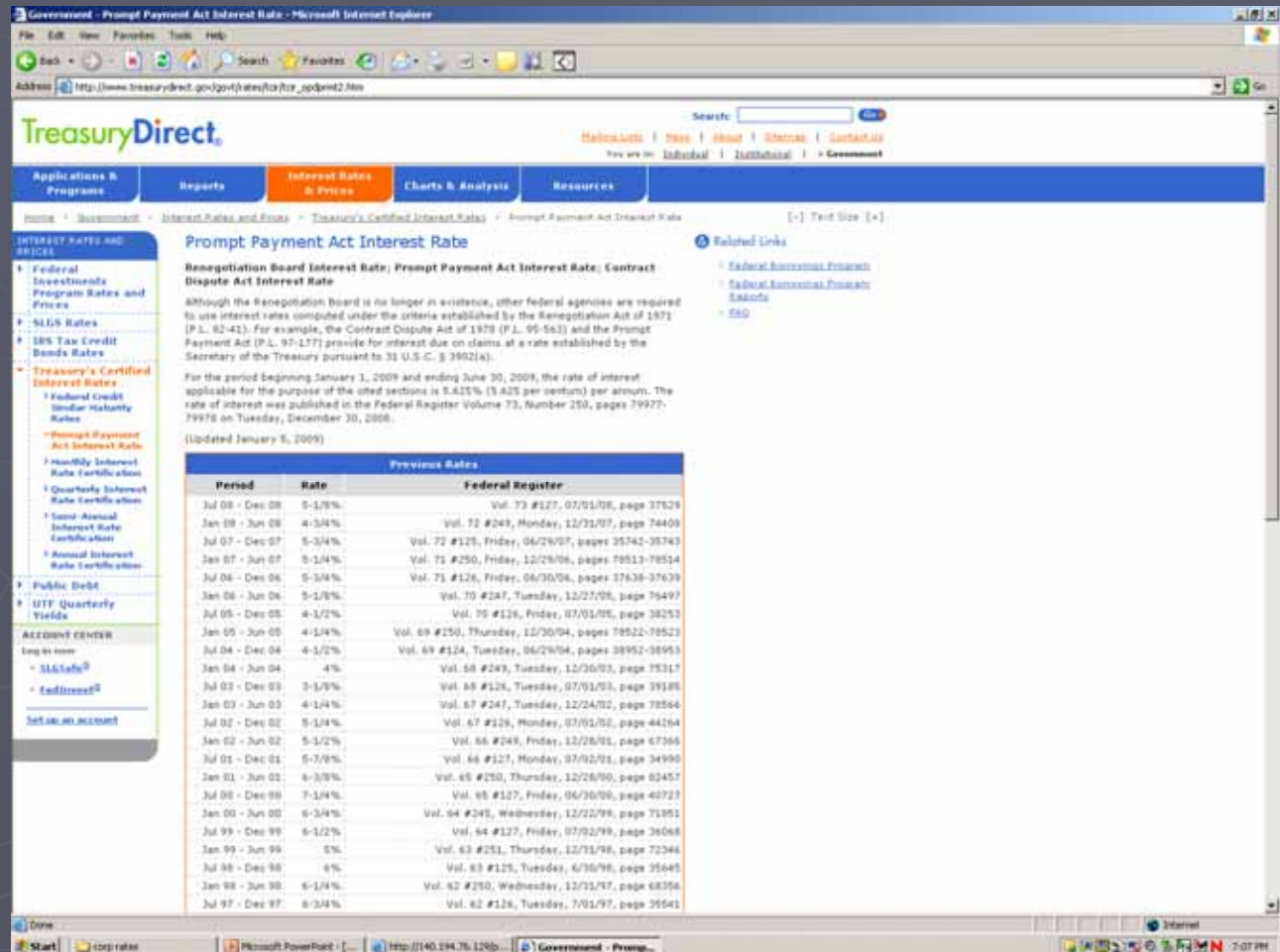
Standard Conditions – Relatively New Equipment

The “Average” and “Standby” rates given in Table 2.1 are applicable only for the Cost-of-Money Rate (CMR) that was in effect at the time of the pamphlets publication. The CMR used in the calculation of the rates is listed in Appendix B of the pamphlet. The current CMR can be looked up on line.

Standard Conditions – Relatively New Equipment

http://www.treasurydirect.gov/govt/rates/tcir/tcir_opdprmt2.htm

Treasury Direct web site provides Cost-of-Money Rates that are updated in January and July of every year.



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Prompt Payment Act Interest Rate

Renegotiation Board Interest Rate; Prompt Payment Act Interest Rate; Contract Dispute Act Interest Rate

Although the Renegotiation Board is no longer in existence, other federal agencies are required to use interest rates computed under the criteria established by the Renegotiation Act of 1971 (P.L. 92-41). For example, the Contract Dispute Act of 1978 (P.L. 95-563) and the Prompt Payment Act (P.L. 97-177) provide for interest due on claims at a rate established by the Secretary of the Treasury pursuant to 31 U.S.C. § 3902(a).

For the period beginning January 1, 2009 and ending June 30, 2009, the rate of interest applicable for the purpose of the cited sections is 5.625% (5.625 per centum) per annum. The rate of interest was published in the Federal Register Volume 73, Number 250, pages 79977-79978 on Tuesday, December 30, 2008.

(Updated January 6, 2009)

Period	Rate	Previous Rates
Jul 08 - Dec 08	5-1/8%	Federal Register
Jul 08 - Dec 08	5-1/8%	Vol. 73 #127, 07/01/08, page 37529
Jan 09 - Jun 09	4-3/4%	Vol. 72 #249, Monday, 12/31/07, page 74409
Jul 07 - Dec 07	5-3/4%	Vol. 72 #125, Friday, 06/29/07, pages 35742-35743
Jan 07 - Jun 07	5-1/4%	Vol. 71 #250, Friday, 12/26/06, pages 78513-78514
Jul 06 - Dec 06	5-3/4%	Vol. 71 #126, Friday, 06/30/06, pages 37638-37639
Jan 06 - Jun 06	5-1/8%	Vol. 70 #247, Tuesday, 12/27/05, page 75497
Jul 05 - Dec 05	4-1/2%	Vol. 70 #126, Friday, 07/01/05, page 38253
Jan 05 - Jun 05	4-1/4%	Vol. 69 #250, Thursday, 12/30/04, pages 78522-78523
Jul 04 - Dec 04	4-1/2%	Vol. 69 #124, Tuesday, 06/29/04, pages 38952-38953
Jan 04 - Jun 04	4%	Vol. 68 #249, Tuesday, 12/26/03, page 75317
Jul 03 - Dec 03	3-1/8%	Vol. 68 #126, Tuesday, 07/01/03, page 39186
Jan 03 - Jun 03	4-1/4%	Vol. 67 #247, Tuesday, 12/24/02, page 78566
Jul 02 - Dec 02	5-1/4%	Vol. 67 #126, Monday, 07/01/02, page 44264
Jan 02 - Jun 02	5-1/2%	Vol. 66 #249, Friday, 12/26/01, page 67366
Jul 01 - Dec 01	5-7/8%	Vol. 66 #127, Monday, 07/02/01, page 34990
Jan 01 - Jun 01	6-3/8%	Vol. 65 #250, Thursday, 12/26/00, page 80457
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Jan 00 - Jun 00	6-3/4%	Vol. 64 #245, Wednesday, 12/22/99, page 71851
Jul 99 - Dec 99	6-1/2%	Vol. 64 #127, Friday, 07/02/99, page 36068
Jan 99 - Jun 99	6%	Vol. 63 #251, Thursday, 12/31/98, page 72346
Jul 98 - Dec 98	6%	Vol. 63 #125, Tuesday, 6/30/98, page 35645
Jan 98 - Jun 98	6-1/4%	Vol. 62 #250, Wednesday, 12/31/97, page 68356
Jul 97 - Dec 97	6-3/4%	Vol. 62 #126, Tuesday, 7/01/97, page 35541

Standard Conditions – Relatively New Equipment

The formulas for adjusting the equipment rates for different CMR's are as follows:

$$\text{Adjusted Average rate} = (\text{Average rate} - \text{FCCM}) + (\text{FCCM} * [\text{Current CMR} / \text{Appendix B CMR}])$$

$$\text{Adjusted Standby rate} = (\text{Standby rate} - \text{FCCM}) + (\text{FCCM} * [\text{Current CMR} / \text{Appendix B CMR}])$$

Standard Conditions – Relatively New Equipment

The “Average” rate given in Table 2.1 is applicable only for the average fuel prices that existed at the time the pamphlet was published. The fuel prices used for the fuel cost calculations can be found in Appendix B.

Standby Rates do not contain the fuel costs and therefore should not be adjusted due to changes in fuel prices.

Standard Conditions – Relatively New Equipment

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EP 1110-1-8
Vol. 4
10 Sept 07

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

CAT	REGION 4			ENGINE HORSEPOWER FUEL TYPE		VALUE (TEV) 2004 (\$)	TOTAL HOURLY RATES (\$/HR)		ADJUSTABLE ELEMENTS			CWT	
	ID.NO.	MODEL	EQUIPMENT DESCRIPTION	MAIN	CARRIER		AVERAGE	STANDBY	DEPR	FCCM	FUEL		
H25 HYDRAULIC EXCAVATORS, CRAWLER MOUNTED													
	SUBCATEGORY	0.10	0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS)										
	CATERPILLAR INC. (MACHINE DIVISION)												
	H25CA034	301.8	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 3,800 LBS, 0.04 CY BUCKET, 7.50' MAX DIGGING DEPTH		17 HP	D-off	\$35,403	9.37	2.47	3.32	0.81	1.24	37
	H25CA035	303 CR	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 7,500 LBS, 0.11 CY BUCKET, 9.08' MAX DIGGING DEPTH		25 HP	D-off	\$42,514	11.63	2.97	3.99	0.97	1.82	73
	H25CA036	305 CR	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 10,800 LBS, 0.17 CY BUCKET, 11.08' MAX DIGGING DEPTH		42 HP	D-off	\$70,395	19.31	4.91	6.60	1.61	3.06	109
	Komatsu America International Company												
	H25KM018	PC20MR-2	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 4,800 LBS, 0.05 CY BUCKET, 6'11" MAX DIGGING DEPTH		20 HP	D-off	\$41,775	11.04	2.91	3.92	0.95	1.46	51
	H25KM021	PC40MR-2	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 10,000 LBS, 0.18 CY BUCKET, 12'9" MAX DIGGING DEPTH		39 HP	D-off	\$56,174	15.87	3.92	5.27	1.28	2.84	106
	H25KM022	PC58UU-3	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 11,400 LBS, 0.29 CY BUCKET, 13'1" MAX DIGGING DEPTH		40 HP	D-off	\$71,819	19.45	5.01	6.73	1.64	2.91	115
	H25KM023	PC78US-6	HYDRAULIC EXCAVATOR, CRAWLER, 6,200 LBS, 0.37 CY BUCKET, 12'4" MAX DIGGING DEPTH		54 HP	D-off	\$88,518	24.37	6.17	8.30	2.02	3.93	159
	MELROE COMPANY/BOBCAT												
	H25ME001	323	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 3,600 LBS, 0.04 CY BUCKET, 7'6" MAX DIGGING DEPTH		13 HP	D-off	\$28,118	7.43	1.96	2.64	0.64	0.97	37
	H25ME002	331	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 7,200 LBS, 0.10 CY BUCKET, 10'2" MAX DIGGING DEPTH		40 HP	D-off	\$40,948	12.54	2.85	3.84	0.93	2.91	72

95 of 249

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The "Fuel" cost listed here is the average cost of the fuel that is burned in one hour of work.

Standard Conditions – Relatively New Equipment

The formula for adjusting the fuel cost for the equipment rate is as follows:

$$\text{Adjusted Average rate} = (\text{Average rate} - \text{FUEL}) + (\text{FUEL} * [\text{Current Fuel price} / \text{Appendix B fuel price}])$$

Standard Conditions – Relatively New Equipment

If the FOG rate is known, it can be adjusted by the same ratio as the fuel rate. There are no rate adjustments for repairs, tire wear, or tire repair.

Examples of all of these rate adjustments can be found in Chapter Three of the pamphlet.

Standard Conditions – Relatively New Equipment

On pieces of equipment such as end dump trucks and truck mounted cranes, be sure to look up the rates for both the carrier and the equipment and adjust the rates for both as necessary.

Also be sure to look up any attachments that are being used by the equipment and add those costs into the equipment rates.

Standard Conditions – Relatively New Equipment

The IGE hourly rate for equipment =

ACOE equipment rate

- + Average hourly labor rate
- + Profit
- + Overhead
- + Bond
- + Verifiable miscellaneous expenses

Severe Conditions, Changing Economic Climate, Older Equipment

Hourly equipment rates are calculated using



Check Rate Program.

ACOE Check Rate calculated hourly rates do not include –

- Labor Costs
- Profit
- Overhead
- Licensing fees
- Security

Severe Conditions, Changing Economic Climate, Older Equipment

Left click on
“Engineering and
Construction”.



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Severe Conditions, Changing Economic Climate, Older Equipment

Left click on “Cost Engineering Branch”



The screenshot shows a web browser window titled "Engineering & Construction - Microsoft Internet Explorer". The address bar displays "http://www.usace.army.mil/html/offices/ed/". The website has a blue header with navigation tabs: NEWSROOM, WHO WE ARE, MISSIONS, HISTORY, and RELATED LINKS. Below the header is a banner for the WALLA WALLA DISTRICT with the slogan "RELEVANT READY RESPONSIVE RELIABLE".

The main content area is titled "Engineering & Construction Division". It includes a sidebar on the left with a tree view containing "Walla Walla District", "Engineering & Construction Division" (selected), "Construction Branch", "Design Branch", "Cost Engineering Branch", and "Hydrology & Hydraulics Branch". Below this is a "Related Links" section with "Engineering & Design Publications" and "Intranet District Newsletter".

The main text area describes the division's mission: "The United States Army Corps of Engineers, Walla Walla District, Engineering & Construction Division is a full service engineering organization, reliable and responsive to the development of engineering projects." It further states that the division strives to meet customer expectations by providing quality products and technical expertise for various engineering projects. A list of expertise areas includes engineering planning, data collection and analysis, conceptual design, detailed designs, geology and dam safety, hydrology, hydraulics, water quality, cost estimating, surveying and mapping, and Geographic Information Systems (GIS).

Contact information for the Chief of the Engineering & Construction Division is provided: Email: CENWW-EC, Phone: (509)527-7500.

At the bottom, there are two contact boxes. The first is for the Content Provider, with contact information for the Engineering & Construction Division. The second is for Web Site Technical Assistance, with contact information for the Walla Walla District Webmaster. A "Section 508 Disclaimer" is also present, stating that the site is 508 Compliant and providing instructions for users with disabilities.

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The screenshot shows a Microsoft Internet Explorer browser window displaying the website for the Cost Engineering Branch of the Walla Walla District, US Army Corps of Engineers. The browser's address bar shows the URL: <http://www.usace.army.mil/tena/offices/ed/cj/default.asp>. The website has a navigation menu at the top with links: NEWSROOM, WHO WE ARE, MISSIONS, HISTORY, and RELATED LINKS. Below this is a banner for the Walla Walla District with the text "RELEVANT READY RESPONSIVE RELIABLE". The main content area is titled "Cost Engineering Branch" and describes the branch's role in providing estimating services and serving as a "Directory of Expertise for Construction Equipment/Cost Index Database". It lists "Primary Services" including Cost Estimates, Project Schedules, Value Engineering Estimates, Technical Review, Critical Analysis, Construction Equipment Cost Rate and Methodology, and Cost Escalation. At the bottom, there is contact information for the Chief of the Cost Engineering Branch and a "Section 508 Disclaimer" stating the site is 508 Compliant.

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Cost Engineering Branch

Walla Walla District's Cost Engineering Branch provides the Corps with estimating services for the construction features on all projects, from the planning phases through construction, maintenance and rehabilitation of facilities.

Cost Engineering Branch also serves as a **Directory of Expertise for Construction Equipment/Cost Index Database**. We produce several national guidance documents and software programs which provide detail methodologies for estimating costs for construction and marine equipment, dredging and cost escalation factors.

Our diversified cost team strives to provide technical and expert support for all customers, both Corps and other governmental agencies.

Primary Services:

- ▶ Cost Estimates
- ▶ Project Schedules
- ▶ Value Engineering Estimates
- ▶ Technical Review
- ▶ Critical Analysis
- ▶ Construction Equipment Cost Rate and Methodology
- ▶ Cost Escalation

Chief - Cost Engineering Branch, Walla Walla District
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Phone: (509)527-7510

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Severe Conditions, Changing Economic Climate, Older Equipment

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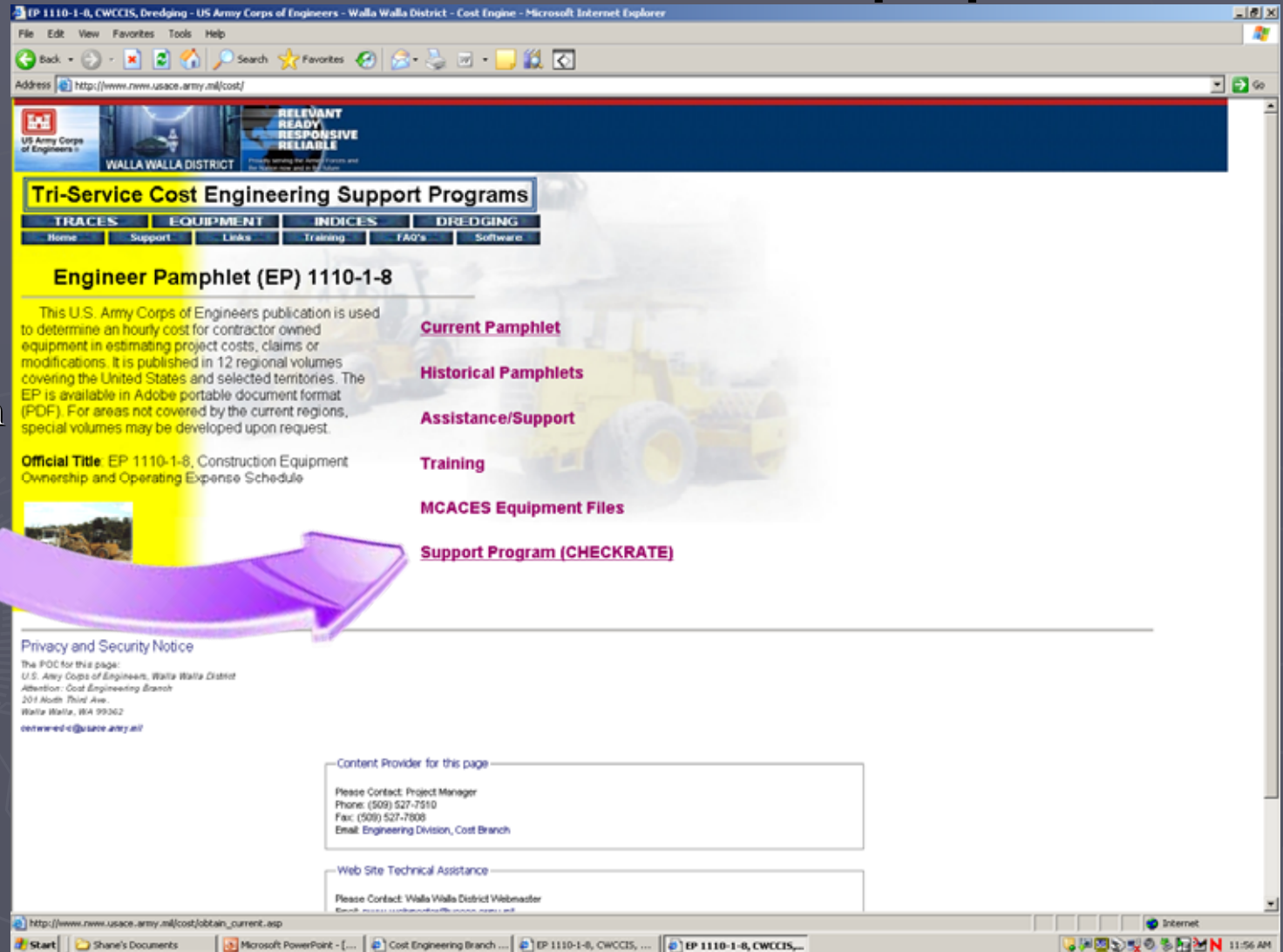
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Engineer Pamphlet (EP) 1110-1-8

This U.S. Army Corps of Engineers publication is used to determine an hourly cost for contractor owned equipment in estimating project costs, claims or modifications. It is published in 12 regional volumes covering the United States and selected territories. The EP is available in Adobe portable document format (PDF). For areas not covered by the current regions, special volumes may be developed upon request.

Official Title: EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule

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Support Program (CHECKRATE)

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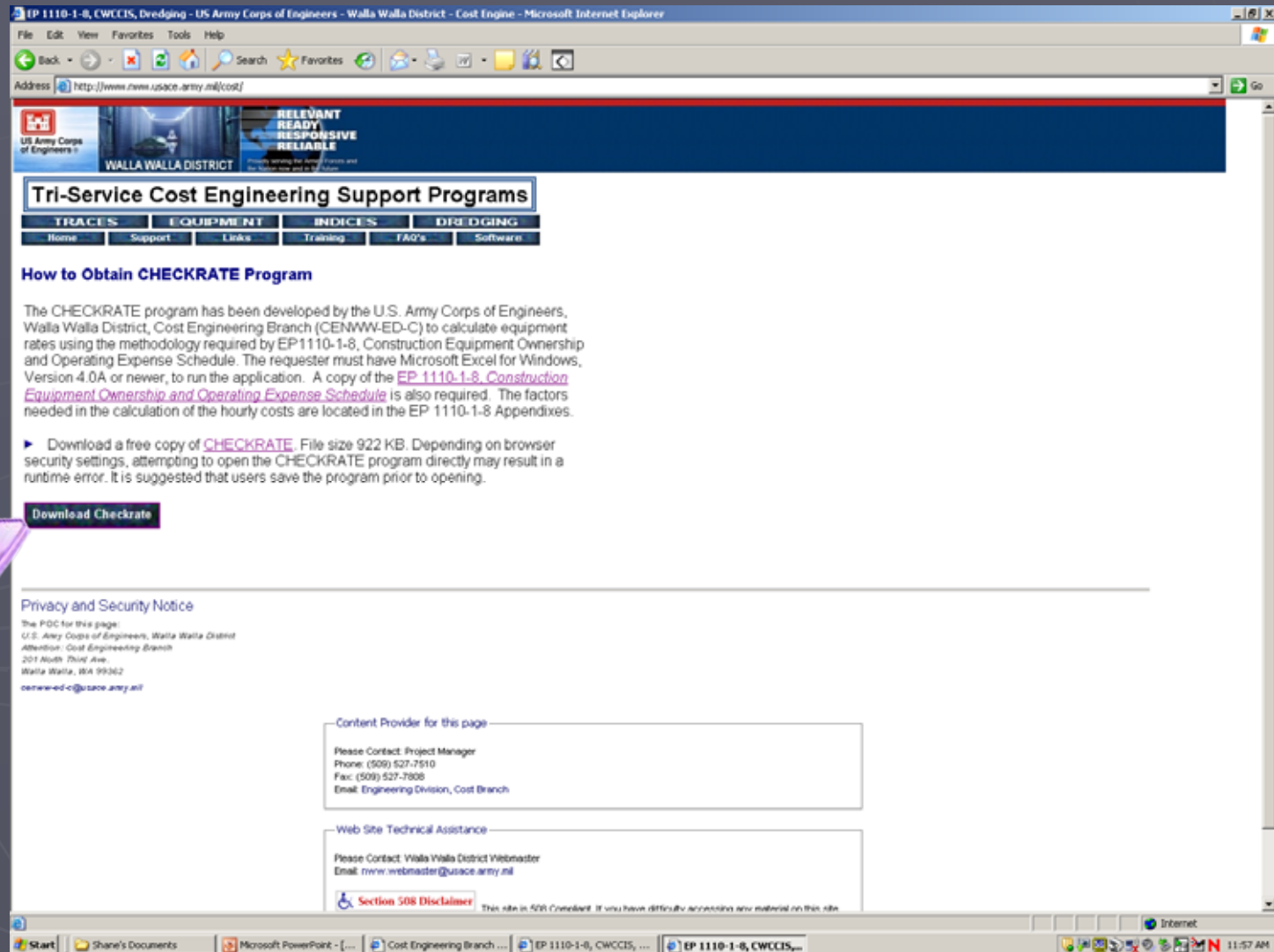
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How to Obtain CHECKRATE Program

The CHECKRATE program has been developed by the U.S. Army Corps of Engineers, Walla Walla District, Cost Engineering Branch (CENWW-ED-C) to calculate equipment rates using the methodology required by EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule. The requester must have Microsoft Excel for Windows, Version 4.0A or newer, to run the application. A copy of the [EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule](#) is also required. The factors needed in the calculation of the hourly costs are located in the EP 1110-1-8 Appendixes.

- Download a free copy of [CHECKRATE](#). File size 922 KB. Depending on browser security settings, attempting to open the CHECKRATE program directly may result in a runtime error. It is suggested that users save the program prior to opening.

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Severe Conditions, Changing Economic Climate, Older Equipment

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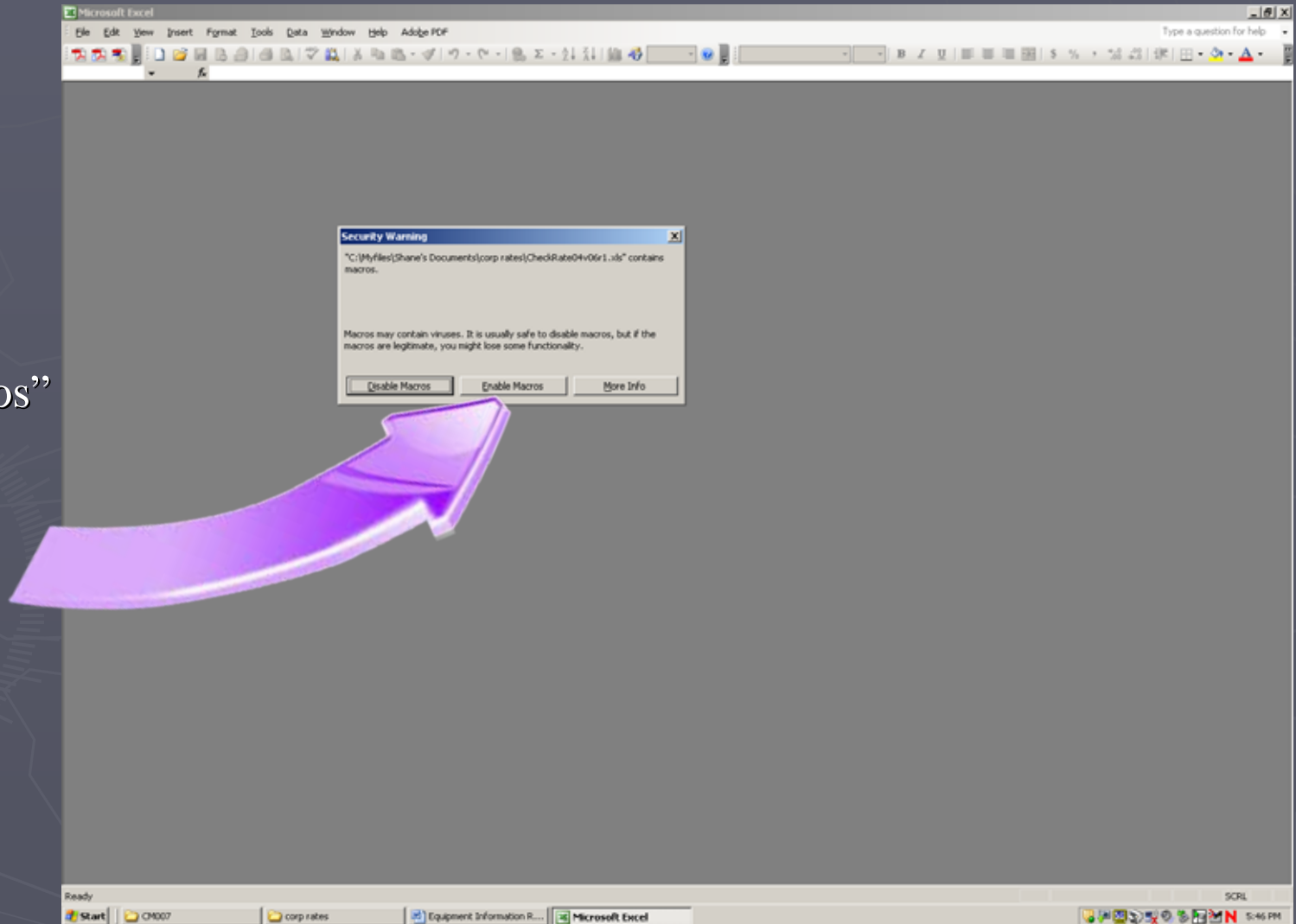
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Severe Conditions, Changing Economic Climate, Older Equipment

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Severe Conditions, Changing Economic Climate, Older Equipment

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should look
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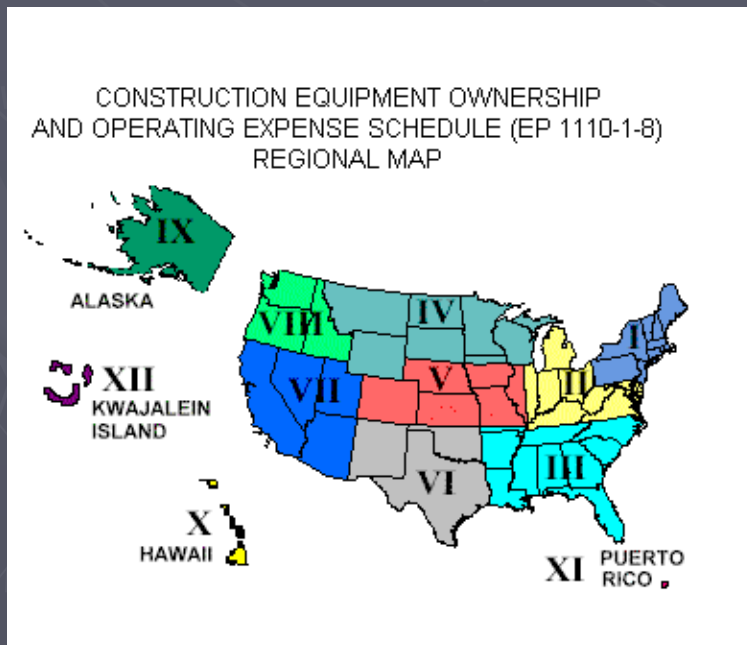
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Severe Conditions, Changing Economic Climate, Older Equipment



Publication Number: **EP 1110-1-8**

Construction Equipment Ownership and Operating Expense Schedule



Although the rates are now being calculated using Check Rate instead of being looked up in tables, much of the needed information for the calculations is found in the appendix of the regional pamphlets that were used in the previous example.

Severe Conditions, Changing Economic Climate, Older Equipment

Knowing the category number for each piece of equipment (found in Chapter 2) makes looking up the factors in the appendix easier.

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EP 1110-1-8
Vol. 4
10 Sept 07

Table 2-1. HOURLY EQUIPMENT OWNERSHIP AND OPERATING EXPENSE

CAT	REGION 4			ENGINE HORSEPOWER FUEL TYPE		VALUE (TEV) 2004 (\$)	TOTAL HOURLY RATES (\$/HR)		ADJUSTABLE ELEMENTS			CWT
	ID.NO.	MODEL	EQUIPMENT DESCRIPTION	MAIN	CARRIER		AVERAGE	STANDBY	DEPR	FCCM	FUEL	
H25	HYDRAULIC EXCAVATORS, CRAWLER MOUNTED											
	SUBCATEGORY	0.10	0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS)									
	CATERPILLAR INC. (MACHINE DIVISION)											
	H25CA034	301.8	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 3,800 LBS, 0.04 CY BUCKET, 7.50' MAX DIGGING DEPTH		17 HP D-off	\$35,403	9.37	2.47	3.32	0.81	1.24	37
	H25CA035	303 CR	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 7,500 LBS, 0.11 CY BUCKET, 9.08' MAX DIGGING DEPTH		25 HP D-off	\$42,514	11.63	2.97	3.99	0.97	1.82	73
	H25CA036	305 CR	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 10,800 LBS, 0.17 CY BUCKET, 11.08' MAX DIGGING DEPTH		42 HP D-off	\$70,395	19.31	4.91	6.60	1.61	3.06	109
	Komatsu America International Company											
	H25KM018	PC20MR-2	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 4,800 LBS, 0.05 CY BUCKET, 6'11" MAX DIGGING DEPTH		20 HP D-off	\$41,775	11.04	2.91	3.92	0.95	1.46	51
	H25KM021	PC40MR-2	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 10,000 LBS, 0.18 CY BUCKET, 12'9" MAX DIGGING DEPTH		39 HP D-off	\$56,174	15.87	3.92	5.27	1.28	2.84	106
	H25KM022	PC58UU-3	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 11,400 LBS, 0.29 CY BUCKET, 13'1" MAX DIGGING DEPTH		40 HP D-off	\$71,819	19.45	5.01	6.73	1.64	2.91	115
	H25KM023	PC78US-6	HYDRAULIC EXCAVATOR, CRAWLER, 6,200 LBS, 0.37 CY BUCKET, 12'4" MAX DIGGING DEPTH		54 HP D-off	\$88,518	24.37	6.17	8.30	2.02	3.93	159
	MELROE COMPANY/BOBCAT											
	H25ME001	323	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 3,600 LBS, 0.04 CY BUCKET, 7'6" MAX DIGGING DEPTH		13 HP D-off	\$28,118	7.43	1.96	2.64	0.64	0.97	37
	H25ME002	331	HYDRAULIC EXCAVATOR, CRAWLER-RUBBER TRACK, 7,200 LBS, 0.10 CY BUCKET, 10'2" MAX DIGGING DEPTH		40 HP D-off	\$40,548	12.54	2.85	3.84	0.93	2.91	72

Done

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Severe Conditions, Changing Economic Climate, Older Equipment

The front side of this sheet should be filled out by the contractor.

Equipment Information Required for Corp Rate Analysis - Microsoft Word

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Project Equipment Information Data Sheet

Project Data

Project Name: _____

Project Number: _____

Contract Number: _____

Equipment Data

Equipment Description: _____

Make, Model, and Serial / Capacity: _____

Year of Manufacture: _____

Horse Power - Center: _____

Fuel Type: Gas _____ Beddie _____ Off road Diesel _____ Onroad Diesel _____

Horse Power - Equipment: _____

Fuel Type: Gas _____ Beddie _____ Off road Diesel _____ Onroad Diesel _____

Shipping weight (lbs): _____

Owned Equipment

New List Price: _____

Actual Purchase Price: _____

Leased Equipment

Monthly Lease Rate: _____

Lease Hours per Month: _____

Are you responsible for: Filters, Oil, Grease (FOG) _____ Tire Repairs _____ Equipment Repairs _____

Time Information

	Size	Qty	Number	Year Purchased	Project Cost	Total cost
Front Time (FT)						
Drive Time (DT)						
Rolling Time (RT)						

List of Attachments

Page 1 Sec 1 1/2 AL Ln Col REC TRK EXT OVR

Start Contract Modifications corp rates Equipment Informat... Microsoft PowerPoint - [...] Corps Rates Info sheet Copy of CHECKRATE

8:02 PM

Severe Conditions, Changing Economic Climate, Older Equipment

The back side of this sheet should be used to document the factors for checkrate and the final hourly rates.

Equipment Information Required for Corp Rate Analysis - Microsoft Word

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Equipment Information Required for Corp Rate Analysis

Appendix B - Area Factors

Total State Sales or Import Tax Rate: _____ Electricity Cost per KiloWatt-Hour: _____ /KWHr
Working Hours Per Year (WHPY): _____ /Yr Gasoline Cost Per Gallon: _____ /gal
Labor Adjustment Factor (LAF): _____ Diesel Cost Per Gallon (Off-Road Use): _____ /gal
Cost-of-Money Rate (Full Rate)*: _____ Diesel Cost Per Gallon (On-Road Use): _____ /gal
* <http://www.treasurydirect.gov/govt/about/ofr/igpdm2.htm>

FREIGHT RATES

Over 0	out	thru 240	\$ _____
Over 240	out	thru 300	\$ _____
Over 300	out	thru 400	\$ _____
Over 400	out	thru 500	\$ _____
Over 500	out	thru 700	\$ _____
Over 700	out	thru 800	\$ _____
Over 800	out	thru 99,999	\$ _____

Appendix C - Operating Conditions

_____ AVERAGE _____ SEVERE

Appendix D - Equipment Hourly Calculation Factors

Economic Rent (ER): _____	Repair Cost Factor (RCF): _____
Discount Code (DC): _____	FOG Factor: _____
Economic Life (ELFE): _____	Salvage Value (SLV): _____
Discount Code: Basic (7.5%) _____ Special (15%) _____	
Horsepower Factor (HPF): Equipment _____ Carrier _____	
Fuel Factor: Equipment _____ Carrier _____	
Tire Wear Factor: Front (FT) _____ Drive (DT) _____ Trailing (TT) _____	

Appendix E - Economic Indexes for Construction Equipment

Equipment: Present Year _____	Year of Manufacture _____
Time: Present Year _____	Year of Manufacture _____

Appendix F - Tire Life

Tire Life: Front (FT) _____ Drive (DT) _____ Trailing (TT) _____

Ownership Costs	Operating Costs	Total Hourly Rate
Depreciation _____	Fuel _____	_____
CPC _____	FOG _____	Total Standby Rate
Gravel Cost _____	Tire Wear _____	_____
	Tire Repair _____	
	Repair _____	

Page 2 Sec 1 2/2 At 9.2" Ln 5 Col 2 REC TRK EXT OVR

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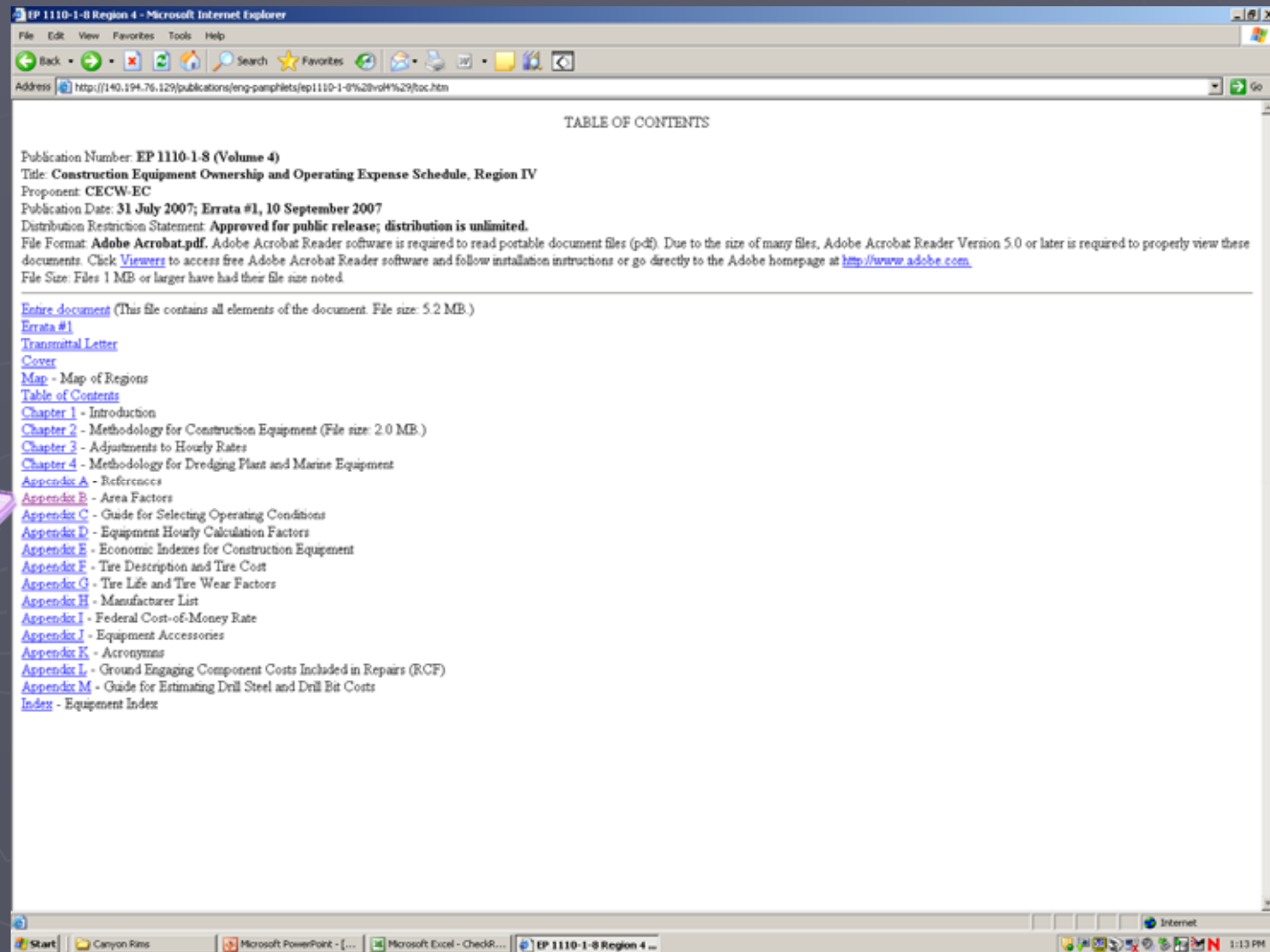
Severe Conditions, Changing Economic Climate, Older Equipment

Appendix B, C, D, E, and F are used in the calculations for the checkrate program



Severe Conditions, Changing Economic Climate, Older Equipment

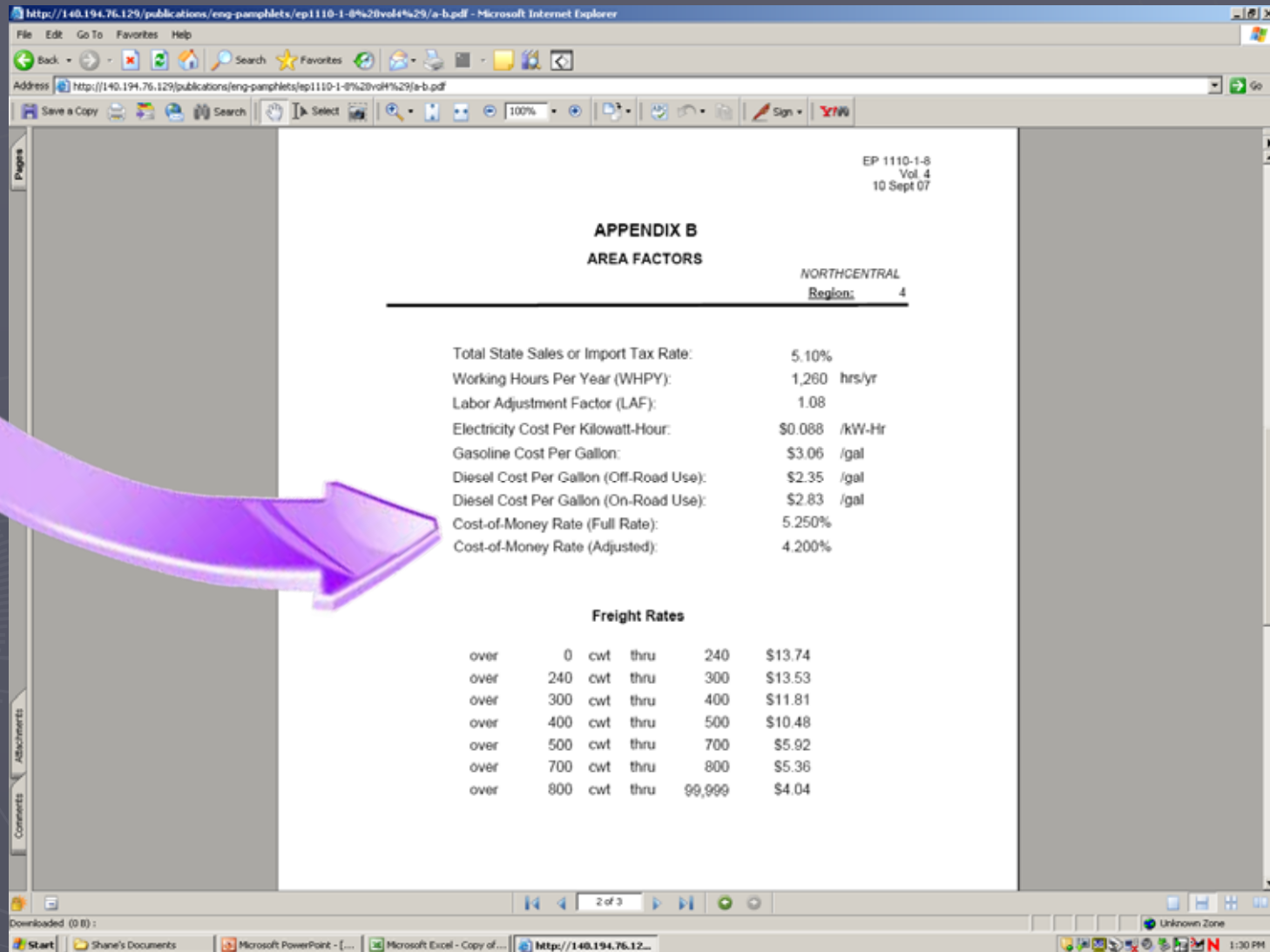
Area Factors such as sales tax, price of fuel, etc. are found in Appendix B.



Severe Conditions, Changing Economic Climate, Older Equipment

Use current, site specific information when possible. Cost-of-Money Rate is available on the web.

The Cost-of-Money rate listed on the web is the “Full Rate”. The checkrate program will automatically adjust the rate.



EP 1110-1-8
Vol. 4
10 Sept 07

APPENDIX B AREA FACTORS

NORTHCENTRAL
Region: 4

Total State Sales or Import Tax Rate:	5.10%
Working Hours Per Year (WHPY):	1,260 hrs/yr
Labor Adjustment Factor (LAF):	1.08
Electricity Cost Per Kilowatt-Hour:	\$0.088 /kW-Hr
Gasoline Cost Per Gallon:	\$3.06 /gal
Diesel Cost Per Gallon (Off-Road Use):	\$2.35 /gal
Diesel Cost Per Gallon (On-Road Use):	\$2.83 /gal
Cost-of-Money Rate (Full Rate):	5.250%
Cost-of-Money Rate (Adjusted):	4.200%

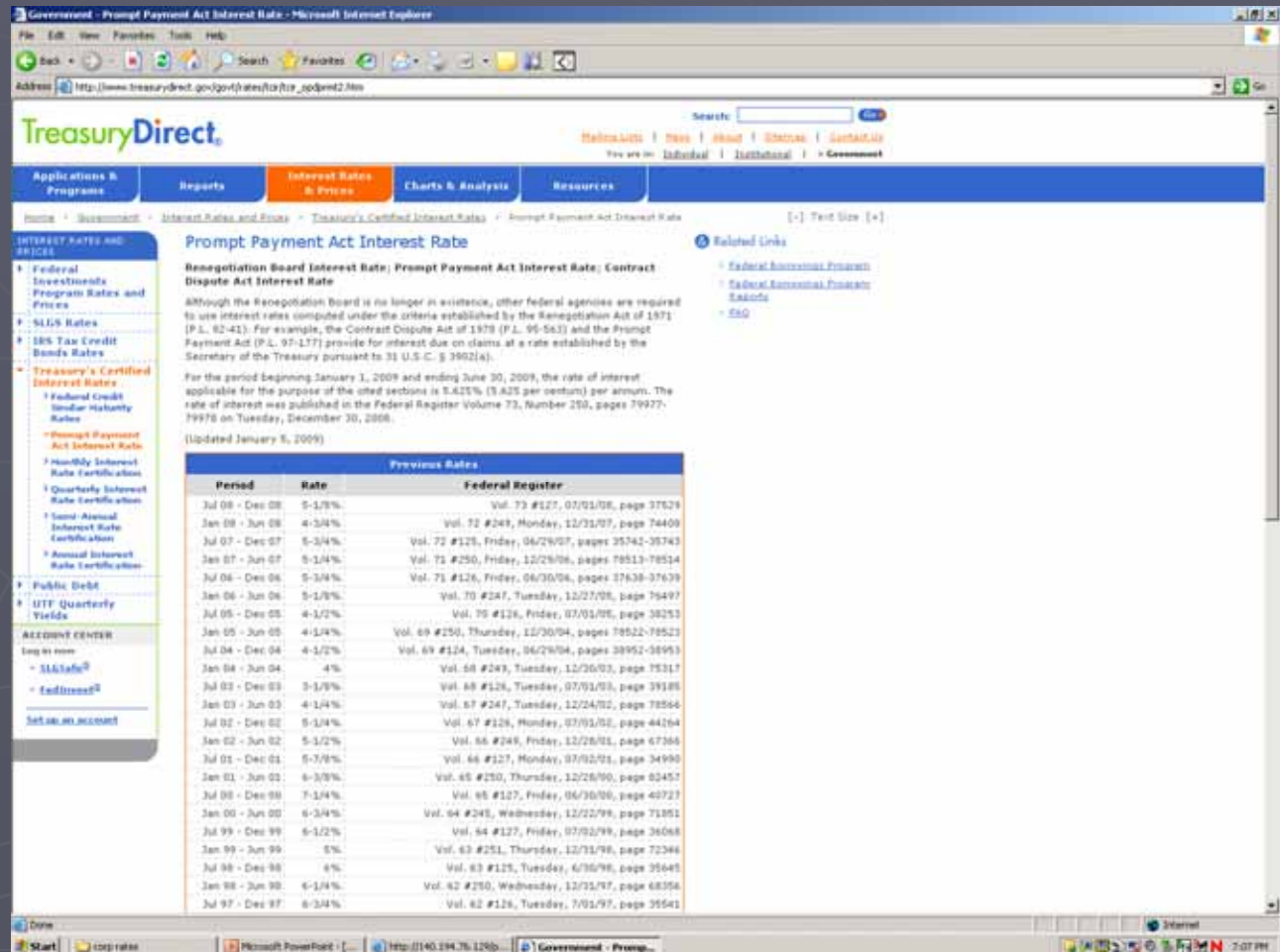
Freight Rates

over	0	cwt	thru	240	\$13.74
over	240	cwt	thru	300	\$13.53
over	300	cwt	thru	400	\$11.81
over	400	cwt	thru	500	\$10.48
over	500	cwt	thru	700	\$5.92
over	700	cwt	thru	800	\$5.36
over	800	cwt	thru	99,999	\$4.04

Severe Conditions, Changing Economic Climate, Older Equipment

http://www.treasurydirect.gov/govt/rates/tcir/tcir_opdprmt2.htm

Treasury Direct web site provides Cost-of-Money Rates that are updated in January and July of every year.



Government - Prompt Payment Act Interest Rate - Microsoft Internet Explorer

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Related Links

- Federal Reserve's Primary Ratios
- Federal Reserve's Primary Ratios
- FAQ

Prompt Payment Act Interest Rate

Renegotiation Board Interest Rate; Prompt Payment Act Interest Rate; Contract Dispute Act Interest Rate

Although the Renegotiation Board is no longer in existence, other federal agencies are required to use interest rates computed under the criteria established by the Renegotiation Act of 1971 (P.L. 92-41). For example, the Contract Dispute Act of 1978 (P.L. 95-563) and the Prompt Payment Act (P.L. 97-177) provide for interest due on claims at a rate established by the Secretary of the Treasury pursuant to 31 U.S.C. § 3902(a).

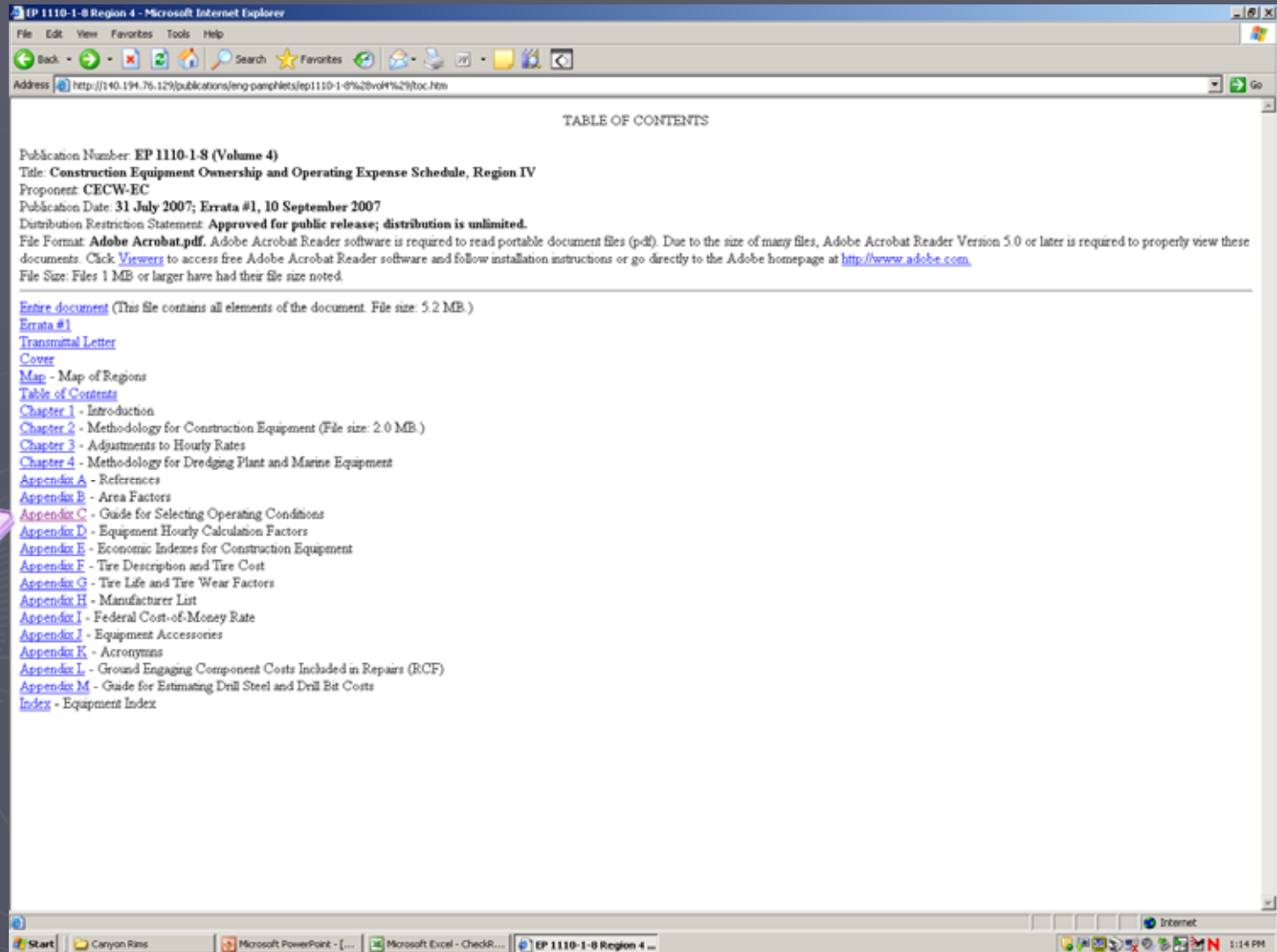
For the period beginning January 1, 2009 and ending June 30, 2009, the rate of interest applicable for the purpose of the cited sections is 5.625% (5.625 per centum) per annum. The rate of interest was published in the Federal Register Volume 73, Number 250, pages 79977-79978 on Tuesday, December 30, 2008.

(Updated January 6, 2009)

Period	Rate	Previous Rates
Jul 08 - Dec 08	5-1/8%	Federal Register
Jan 08 - Jun 08	4-3/4%	Vol. 73 #127, 07/01/08, page 37529
Jul 07 - Dec 07	5-3/4%	Vol. 72 #249, Monday, 12/31/07, page 74409
Jan 07 - Jun 07	5-1/4%	Vol. 72 #125, Friday, 06/29/07, pages 35742-35743
Jul 06 - Dec 06	5-3/4%	Vol. 71 #250, Friday, 12/29/06, pages 78513-78514
Jan 06 - Jun 06	5-1/8%	Vol. 71 #126, Friday, 06/30/06, pages 37638-37639
Jul 05 - Dec 05	4-1/2%	Vol. 70 #247, Tuesday, 12/27/05, page 75497
Jan 05 - Jun 05	4-1/4%	Vol. 69 #126, Friday, 07/01/05, page 38253
Jul 04 - Dec 04	4-1/2%	Vol. 69 #250, Thursday, 12/30/04, pages 78522-78523
Jan 04 - Jun 04	4%	Vol. 69 #124, Tuesday, 06/29/04, pages 38952-38953
Jul 03 - Dec 03	3-1/8%	Vol. 68 #249, Tuesday, 12/30/03, page 75317
Jan 03 - Jun 03	4-1/4%	Vol. 68 #126, Tuesday, 07/01/03, page 39186
Jul 02 - Dec 02	5-1/4%	Vol. 67 #247, Tuesday, 12/24/02, page 78566
Jan 02 - Jun 02	5-1/2%	Vol. 67 #128, Monday, 07/01/02, page 44264
Jul 01 - Dec 01	5-7/8%	Vol. 66 #249, Friday, 12/28/01, page 67366
Jan 01 - Jun 01	6-3/8%	Vol. 66 #127, Monday, 07/02/01, page 34990
Jul 00 - Dec 00	7-1/4%	Vol. 65 #250, Thursday, 12/28/00, page 80457
Jan 00 - Jun 00	6-3/4%	Vol. 65 #127, Friday, 06/30/00, page 40727
Jul 99 - Dec 99	6-1/2%	Vol. 64 #245, Wednesday, 12/23/99, page 71851
Jan 99 - Jun 99	6%	Vol. 64 #127, Friday, 07/02/99, page 36068
Jul 98 - Dec 98	6%	Vol. 63 #251, Thursday, 12/31/98, page 72346
Jan 98 - Jun 98	6-1/4%	Vol. 63 #125, Tuesday, 6/30/98, page 35445
Jul 97 - Dec 97	6-3/4%	Vol. 62 #250, Wednesday, 12/31/97, page 68354
		Vol. 62 #126, Tuesday, 7/01/97, page 35541

Severe Conditions, Changing Economic Climate, Older Equipment

Operating conditions are found in Appendix C.



Severe Conditions, Changing Economic Climate, Older Equipment

The ACOE also recognizes a “Difficult” rating for the operating conditions. The equipment rate for “Difficult” is defined as the arithmetic mean of the “Average” and the “Severe” rates.

EP 1110-1-8
Vol. 4
31 July 07

**APPENDIX C
GUIDE FOR SELECTING OPERATING CONDITIONS**

EQUIPMENT TYPE	AVERAGE	SEVERE
G15: Graders, Motor	Haul road maintenance; road construction, ditching; loose fill spreading; landforming, landleveling; summer road maintenance with medium to heavy winter snow removal; and elevating grader use.	Maintenance of hard-packed roads with embedded rock; heavy fill spreading; ripping scarifying of asphalt or concrete; continuous high load factor; and high impact.
Depreciation Period:	14,500 hours	13,500 hours
H25: Hydraulic Excavators Crawler Mounted	Mass excavation or trenching where machine digs all the time in natural bed clay soils; some traveling and steady, full throttle operation; and most log loading operations.	Continuous trenching or truck loading in rock or shot rock soils; large amount of travel over rough ground; machine continuously working on rock floor with constant high load factor and high impact; and saltwater environment.
Depreciation Period:	8,500 - 19,000 hours	7,000 - 15,000 hours
H30:		

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Severe Conditions, Changing Economic Climate, Older Equipment

Equipment factors such as the fuel factor, the FOG factor, etc are found in Appendix D.



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TABLE OF CONTENTS

Publication Number: EP 1110-1-8 (Volume 4)
Title: **Construction Equipment Ownership and Operating Expense Schedule, Region IV**
Proponent: CECW-EC
Publication Date: 31 July 2007; Errata #1, 10 September 2007
Distribution Restriction Statement: **Approved for public release; distribution is unlimited.**
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[Chapter 1](#) - Introduction
[Chapter 2](#) - Methodology for Construction Equipment (File size: 2.0 MB.)
[Chapter 3](#) - Adjustments to Hourly Rates
[Chapter 4](#) - Methodology for Dredging Plant and Marine Equipment
[Appendix A](#) - References
[Appendix B](#) - Area Factors
[Appendix C](#) - Guide for Selecting Operating Conditions
[Appendix D](#) - Equipment Hourly Calculation Factors
[Appendix E](#) - Economic Indexes for Construction Equipment
[Appendix F](#) - Tire Description and Tire Cost
[Appendix G](#) - Tire Life and Tire Wear Factors
[Appendix H](#) - Manufacturer List
[Appendix I](#) - Federal Cost-of-Money Rate
[Appendix J](#) - Equipment Accessories
[Appendix K](#) - Acronyms
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[Appendix M](#) - Guide for Estimating Drill Steel and Drill Bit Costs
[Index](#) - Equipment Index

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Severe Conditions, Changing Economic Climate, Older Equipment

Make sure that the factors that you get from this table match the operating condition that you selected in Appendix C.

In this example, there are different factors for Average (A) and Severe (S) operating conditions.

EP 1110-1-8
Vol. 4
31 July 07

APPENDIX D
EQUIPMENT HOURLY CALCULATION FACTORS

CATEGORY	SUB	DESCRIPTION	EK	C	DC	LIFE	SLV	HPF	EQUIPMENT FUEL FACTORS			CARRIER FUEL FACTORS			FOG FACTORS			TIRE WEAR FACTORS			RCF	
									E	G	D	HPF	E	G	D	E	G	D	FT	DT		TT
H13	0.40	SHREDDERS	95	A	B	10,000	0.15	65	850	.059	.031	0	.000	.000	.000	.477	.136	.119	1.06	0.86	1.20	0.90
H13	0.51	SOIL TREATMENT PLANT, MOBILE	95	A	B	10,000	0.15	65	850	.059	.031	0	.000	.000	.000	.477	.136	.119	0.77	0.69	0.86	1.00
H13	0.61	SLUDGE PROCESSING EQUIP, SLUDGE DISPENSERS	95	A	B	10,000	0.15	65	850	.059	.031	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	1.00
H13	0.71	WASTE HANDLING EQUIPMENT, DRUM HANDLING	95	A	B	4,000	0.15	65	850	.059	.031	0	.000	.000	.000	.477	.136	.119	0.00	0.00	0.00	1.00
H15	0.00	HEATERS, SPACE	1																			
H20	0.00	HOISTS & AIR WINCHES	95	A	B	5,000	0.20	65	850	.059	.031	0	.000	.000	.000	.000	.102	.102	0.00	0.00	0.00	0.80
H25	0.00	HYDRAULIC EXCAVATORS, CRAWLER MOUNTED	1																			
H25	0.10	0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS)	65	A	B	8,000	0.25	65	850	.059	.031	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.70
H25	0.10	0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS)	65	S	B	7,000	0.25	65	850	.077	.041	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.60
H25	0.11	OVER 12,500 LBS THRU 40,000 LBS	65	A	B	8,500	0.25	65	850	.059	.031	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.70
H25	0.11	OVER 12,500 LBS THRU 40,000 LBS	65	S	B	7,000	0.25	65	850	.077	.041	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.65
H25	0.12	OVER 40,000 LBS THRU 100,000 LBS	65	A	B	12,000	0.25	65	850	.059	.031	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.80
H25	0.12	OVER 40,000 LBS THRU 100,000 LBS	65	S	B	10,000	0.25	65	850	.077	.041	0	.000	.000	.000	.000	.149	.149	0.00	0.00	0.00	0.95
H25	0.13	OVER 100,000 LBS THRU 150,000 LBS	65	A	B	16,000	0.25	65	850	.059	.031	0	.000	.000	.000	.000	.047	.047	0.00	0.00	0.00	1.00
H25	0.13	OVER 100,000 LBS THRU 150,000 LBS	65	S	B	13,500	0.25	65	850	.077	.041	0	.000	.000	.000	.000	.047	.047	0.00	0.00	0.00	1.10
H25	0.14	OVER 150,000 LBS THRU 200,000 LBS	65	A	B	19,000	0.25	65	850	.059	.031	0	.000	.000	.000	.000	.051	.051	0.00	0.00	0.00	1.10
H25	0.14	OVER 150,000 LBS THRU 200,000 LBS	65	S	B	15,000	0.25	65	850	.077	.041	0	.000	.000	.000	.000	.051	.051	0.00	0.00	0.00	1.25
H25	0.15	OVER 200,000 LBS THRU 250,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	0.90
H25	0.15	OVER 200,000 LBS THRU 250,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	0.80
H25	0.16	OVER 250,000 LBS THRU 300,000 LBS	65	A	B	6,000	0.20	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.16	OVER 250,000 LBS THRU 300,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.17	OVER 300,000 LBS THRU 350,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.17	OVER 300,000 LBS THRU 350,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.18	OVER 350,000 LBS THRU 400,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.18	OVER 350,000 LBS THRU 400,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.19	OVER 400,000 LBS THRU 450,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.19	OVER 400,000 LBS THRU 450,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.20	OVER 450,000 LBS THRU 500,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.20	OVER 450,000 LBS THRU 500,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.21	OVER 500,000 LBS THRU 550,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.21	OVER 500,000 LBS THRU 550,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.22	OVER 550,000 LBS THRU 600,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.22	OVER 550,000 LBS THRU 600,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.23	OVER 600,000 LBS THRU 650,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.23	OVER 600,000 LBS THRU 650,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.24	OVER 650,000 LBS THRU 700,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.24	OVER 650,000 LBS THRU 700,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.25	OVER 700,000 LBS THRU 750,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.25	OVER 700,000 LBS THRU 750,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.26	OVER 750,000 LBS THRU 800,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.26	OVER 750,000 LBS THRU 800,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.27	OVER 800,000 LBS THRU 850,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.27	OVER 800,000 LBS THRU 850,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.28	OVER 850,000 LBS THRU 900,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.28	OVER 850,000 LBS THRU 900,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.29	OVER 900,000 LBS THRU 950,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.29	OVER 900,000 LBS THRU 950,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.30	OVER 950,000 LBS THRU 1,000,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.30	OVER 950,000 LBS THRU 1,000,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.31	OVER 1,000,000 LBS THRU 1,050,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.31	OVER 1,000,000 LBS THRU 1,050,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.32	OVER 1,050,000 LBS THRU 1,100,000 LBS	65	A	B	6,000	0.15	65	850	.059	.031	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.32	OVER 1,050,000 LBS THRU 1,100,000 LBS	65	S	B	6,000	0.15	65	850	.077	.041	0	.000	.000	.000	.000	.136	.136	0.00	0.00	0.00	1.00
H25	0.33	OVER 1,100,000 LBS THRU 1,150,000 LBS	65	A	B	6,000																

Severe Conditions, Changing Economic Climate, Older Equipment

Economic Indexes are found in Appendix E.

IP 1110-1-8 Region 4 - Microsoft Internet Explorer

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Back Forward Stop Home Search Favorites

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TABLE OF CONTENTS

Publication Number: EP 1110-1-8 (Volume 4)
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[Errata #1](#)
[Transmittal Letter](#)
[Cover](#)
[Map](#) - Map of Regions
[Table of Contents](#)
[Chapter 1](#) - Introduction
[Chapter 2](#) - Methodology for Construction Equipment (File size: 2.0 MB.)
[Chapter 3](#) - Adjustments to Hourly Rates
[Chapter 4](#) - Methodology for Dredging Plant and Marine Equipment
[Appendix A](#) - References
[Appendix B](#) - Area Factors
[Appendix C](#) - Guide for Selecting Operating Conditions
[Appendix D](#) - Equipment Hourly Calculation Factors
[Appendix E](#) - Economic Indexes for Construction Equipment
[Appendix F](#) - Tire Description and Tire Cost
[Appendix G](#) - Tire Life and Tire Wear Factors
[Appendix H](#) - Manufacturer List
[Appendix I](#) - Federal Cost-of-Money Rate
[Appendix J](#) - Equipment Accessories
[Appendix K](#) - Acronyms
[Appendix L](#) - Ground Engaging Component Costs Included in Repairs (RCF)
[Appendix M](#) - Guide for Estimating Drill Steel and Drill Bit Costs
[Index](#) - Equipment Index

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Severe Conditions, Changing Economic Climate, Older Equipment

Use the Economic Key (EK) that you looked up in Appendix D to find the factor for both the present year and the year of manufacture for the equipment.

EP 1110-1-8
Vol. 4
31 July 07

APPENDIX E ECONOMIC INDEXES FOR CONSTRUCTION EQUIPMENT

Note: Table 2-1 Equipment Rates are based on equipment purchased new in the year 2004
(--Projected-----)

KEY (EK)	EQUIPMENT DIVISIONS	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
5	Air Equipment	2438	2366	2296	2235	2157	2085	2075	2069	2075	2047	2078	2074	2070	2063	2053	2012	2022	2008	1963
10	Asphalt & Concrete Paving Equipment	4510	4377	4247	4116	3950	3758	3763	3769	3766	3717	3638	3589	3490	3390	3323	3248	3189	3092	3106
15	Buckets	9190	8919	8655	8505	8057	7626	7443	7254	6804	6800	6962	6930	6888	6774	6672	6638	6663	6380	5901
20	Cranes, Draglines & Clamshells - Crawler & Truck Mtd	7072	6864	6661	6545	6201	5969	5728	5582	5236	5310	5289	5225	5116	5013	4880	4793	4796	4540	4298
25	Drills	5688	5520	5357	5117	4762	4444	4192	4116	3819	3736	3683	3626	3574	3518	3394	3320	3268	3196	3163
30	Generators	5657	5630	5328	5119	4888	4641	4566	4548	4548	4529	4520	4517	4484	4511	4457	4343	4294	4234	4181
35	Graders, Motor	7402	7193	6971	6627	6078	6310	6117	6048	5979	5852	5803	5802	5544	5466	5106	5088	4946	4650	4509
40	Loaders, Track	7485	7245	7031	6905	6653	6347	6177	6081	6058	6032	5960	5792	5686	5606	5434	5257	5068	4816	4677
45	Loaders, Wheel	6890	6687	6489	6372	6140	5857	5701	5612	5591	5567	5511	5409	5303	5251	5101	4988	4894	4758	4640
50	Pile Driving Equipment	6550	6357	6169	6032	5787	5450	5270	5195	5127	5112	5062	4993	4892	4809	4700	4598	4539	4427	4305
55	Rollers	6697	6500	6308	6136	5872	5646	5436	5285	5225	5130	5004	5082	5001	4950	4851	4719	4484	4460	4668
60	Scrapers & Soil Stabilizers	7402	7193	6971	6627	6078	6310	6117	6048	5979	5852	5803	5802	5544	5466	5106	5088	4946	4650	4509
65	Shovels, Backhoes & Hydraulic Excavators	7072	6864	6661	6545	6201	5969	5728	5582	5236	5310	5289	5225	5116	5013	4880	4793	4796	4540	4298
70	Tractors, Crawlers & Attachments	7485	7245	7031	6905	6653	6347	6177	6081	6058	6032	5960	5792	5686	5606	5434	5257	5068	4816	4677
75	Tractor, Wheel	6405	6216	6032	5867	5616	5400	5170	5055	4997	4906	4833	4885	4624	4540	4527	4484	4342	4270	4196
80	Trenchers	8267	8023	7786	7573	7248	6970	6466	6524	6450	6332	6223	6042	5833	5749	5670	5509	5207	5015	4948
85	Trucks, Highway	5255	5100	4949	4816	4638	4450	4356	4306	4216	4212	4307	4216	4241	4318	4293	4190	4025	3838	3669
90	Trucks & Wagons - Off-Highway	7927	7693	7466	7225	6886	6434	6095	6026	5931	5828	5715	5651	5581	5440	5265	4979	4837	4797	4739
95	All Other Equipment	6550	6357	6169	6032	5787	5450	5270	5195	5127	5112	5062	4993	4892	4809	4700	4598	4539	4427	4305
100	All Tires & Tubes	3047	3151	3058	2929	2759	2614	2487	2430	2401	2373	2371	2400	2431	2475	2559	2517	2525	2524	2506
105	Marine Equipment	7667	7441	7221	6913	6661	6436	6101	5846	5771	5645	5556	5513	5429	5245	5036	4861	4679	4438	

EK = Economic Key

E-1

2 of 3

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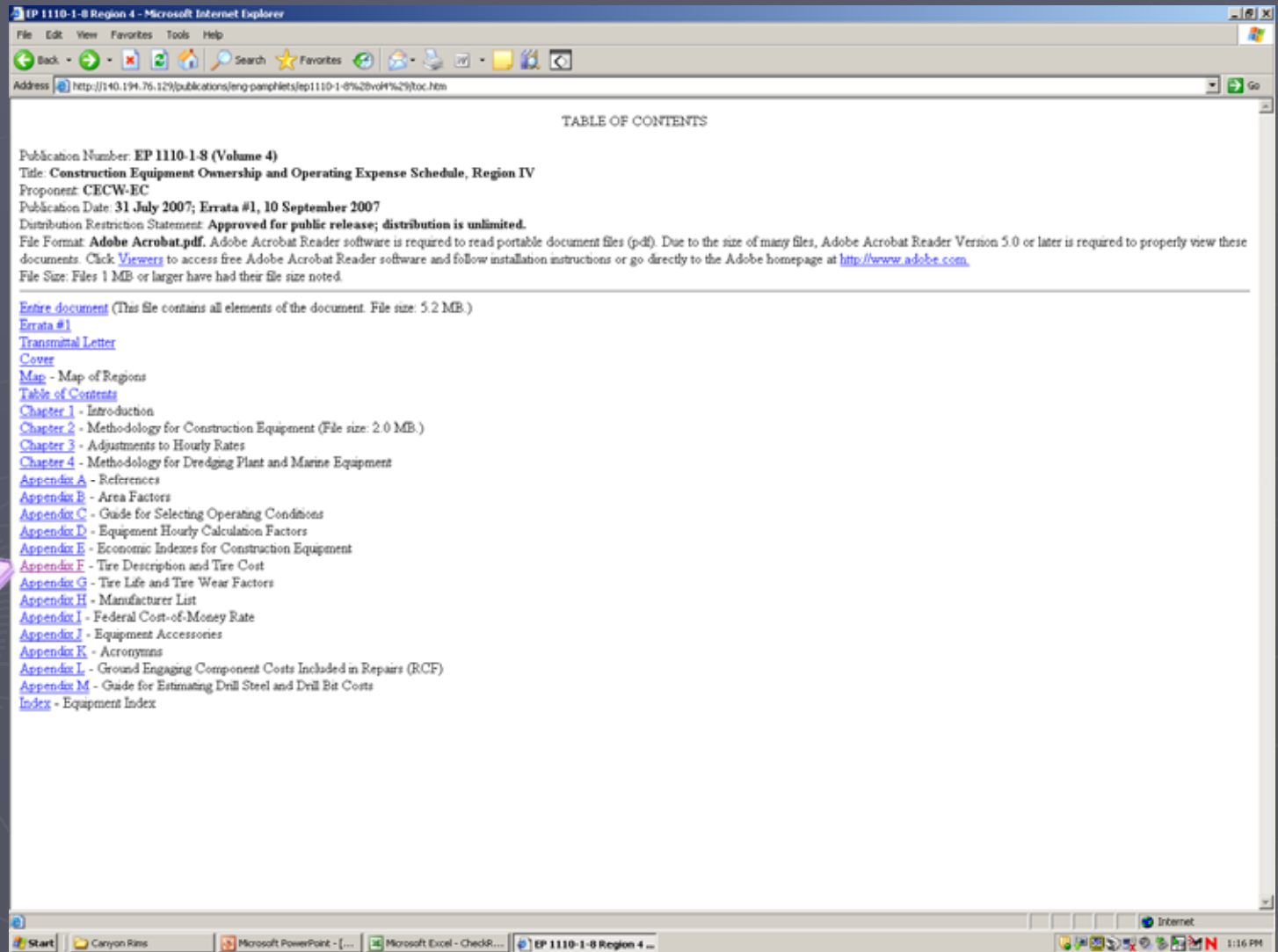
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Severe Conditions, Changing Economic Climate, Older Equipment

Tire life and average tire costs are found in Appendix F.



Severe Conditions, Changing Economic Climate, Older Equipment

The table provides the tire life and the average cost per tire.

EP 1110-1-8
Vol. 4
31 July 07

**APPENDIX F
TIRE DESCRIPTION AND TIRE COST**

EP CODE	INDUSTRY CODE	SIZE DESCRIPTION	SIZE	PLY	TUBE (Z)	COST PER EACH
ANMV4	L2/G2	17.5-25	17.50 x 25.00	16	TL	\$748
ANMV5	L2/G2	17.5-25	17.50 x 25.00	20	TL	\$964
G-2 SGLEL 2A ES/L2/G2			(Life = 3200 hrs)			
ANMW1	E/L/G2	20.5-25	20.50 x 25.00	12	TL	\$1,091
ANMW2	E/L/G2	20.5-25	20.50 x 25.00	16	TL	\$1,178
ANMW4	E/L/G2	23.5-25	23.50 x 25.00	12	TL	\$1,661
ANMW5	E/L/G2	23.5-25	23.50 x 25.00	16	TL	\$1,742
G-3 RKG 3A			(Life = 3200 hrs)			
ANMX1	G3	14.00-24	14.00 x 24.00	16	TL	\$898
L-2 DOZER/LOADER SERVICE TRACTION SG LUG DL			(Life = 3200 hrs)			
ANNA2	L3	26.5-25	26.50 x 25.00	20	TL	\$2,874
L-3 DOZER/LOADER SERVICE ROCK SERVICE E3/L3			(Life = 3200 hrs)			
ANNB1	E/L 3	20.5-25	20.50 x 25.00	12	TL	\$1,374
ANNB2	E/L 3	20.5-25	20.50 x 25.00	16	TL	\$1,456
ANNB5	E/L 3	23.5-25	23.50 x 25.00	16	TL	\$1,988
ANNB6	E/L 3	23.5-25	23.50 x 25.00	20	TL	\$2,270
L-3 DOZER/LOADER SERVICE ROCK SHRL DL			(Life = 3200 hrs)			
ANNC1	L3	26.5-25	26.50 x 25.00	20	TL	\$2,874
ANNC2	L4	29.5-25	29.50 x 25.00	22	TL	\$4,706
ANNC3	L4	29.5-25	29.50 x 25.00	28	TL	\$5,069
L-3 DOZER/LOADER SERVICE ROCK HRL DL 3A & 3F			(Life = 3200 hrs)			
ANND2	L/G3	17.5-25	17.50 x 25.00	12	TL	\$677
ANND4	L/G3	17.5-25	17.50 x 25.00	20	TL	\$1,107
L-4 DOZER/LOADER SERVICE ROCK DEEP TREAD S			(Life = 5000 hrs)			
ANNE2	L3	26.5-25	26.50 x 25.00	20	TL	\$2,874
ANNE3	L4	29.5-25	29.50 x 25.00	22	TL	\$4,706
ANNE4	L4	29.5-25	29.50 x 25.00	28	TL	\$5,069
ANNE5	E3	29.5-29	29.50 x 29.00	34	TL	\$4,738
L-4 DOZER/LOADER SERVICE ROCK DEEP TREAD N			(Life = 5000 hrs)			

Severe Conditions, Changing Economic Climate, Older Equipment

Once all the equipment details are obtained and the factors have been found, it is time to enter the information into the Checkrate program.

The screenshot displays the Microsoft Excel - CheckRate04v06r1 spreadsheet. The interface includes a menu bar (File, Edit, View, Insert, Format, Tools, Data, Window, Help, Adobe PDF), a toolbar, and a status bar at the bottom showing 'Ready' and '6:49 AM'.

The spreadsheet is organized into several sections:

- Version 6.0**: Includes fields for CP DATE (31-Jul-05), VOLUME (Region 8), and FILENAME (CheckRate04v06r1.xls).
- AREA FACTORS, APPENDIX B**: Contains input fields for GASOLINE (\$/gal), DIESEL OFF RD. (\$/gal), DIESEL ON RD. (\$/gal), COST OF MONEY (ANNUAL %), and WORK HRS PER WEEK.
- DATA**: A table with columns for EQUIPMENT DESCRIPTION LINE #1, EQUIPMENT DESCRIPTION LINE #2, and various factors like AVERAGE, SEVERE, and AVERAGE.
- APPENDIX B**: A table for Freight Rate (\$/hr).
- APPENDIX D**: A table for Severe, Average, and Severe factors.
- Fog Factors**: A table for Equipment & Carrier.
- Tire Wear Factors**: A table for Front, Drive, and Trailing.
- Repair Factor**: A table for Equipment & Carrier.
- Appendix E**: A table for Equip. Economic Index.
- Appendix F**: A table for Tire Wear Factors.
- EQUIPMENT DETAILS**: A table for List Price Yr. of Mch., ACTUAL PURCHASE PRICE, Equipment HP, Carrier HP, Shipping Yr. (cont), Total Tire Cost Present Yr. + Front, Total Tire Cost Present Yr. + Drive, Total Tire Cost Present Yr. + Trailing, Fog Extra, Fuel Equipment, and Fuel Carrier.
- CALCULATIONS**: A table for RATE CALCULATIONS, TOTAL OWNERSHIP, and Fuel.

The spreadsheet is currently displaying the 'Land Based' tab, with other tabs visible at the bottom: Conditions / Instructions / Area Factors / Land Based / Land Based Summary / Land Based Detail / Marine #1 / Marine #2 / Marine #3 / Marine #4 / Marine #5.

Severe Conditions, Changing Economic Climate, Older Equipment

All factors from Appendix B are entered in the appropriate places on the “Area Factor” tab.

Microsoft Excel - CheckRate04v06r1

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Type a question for help

F5 Region 8

Area Factors and Constant's

EQUIPMENT MANUAL YEAR 31 Jul 05

FILENAME: CheckRate04v06r1.xls

REGION Region 8

AREA FACTORS (APPENDIX B)

SHEET 1

SALES TAX (%)	4.80%
WORK HOURS/ YEAR	1,540 Hrs
LABOR ADJ. FACTOR	1.08
ELECTRICITY (cost/Kw-Hr)	\$0.069 /Kw-Hr
GASOLINE (cost/gal)	\$2.00 /gal
DIESEL OFF ROAD (cost/gal)	\$1.74 /gal
DIESEL ON ROAD (cost/gal)	\$2.24 /gal
*Marine Fuel -Gasoline (cost/gal) Used for Marine Checkrate	\$2.00 /gal
*Marine Fuel -Diesel (cost/gal) Used for Marine Checkrate	\$1.75 /gal
COST OF MONEY (FULL RATE) (%)	5.125%
COST OF MONEY (ADJUSTED RATE) %	4.100%
WORK HOURS PER WEEK	40 hrs
* Not found in Appendix B	

FREIGHT RATES (IN CWT)

From	0 CWT	TO	240 cwt	\$2.00 /cwt
From	241 CWT	TO	300 cwt	\$2.18 /cwt
From	301 CWT	TO	400 cwt	\$2.91 /cwt
From	401 CWT	TO	500 cwt	\$6.59 /cwt
From	501 CWT	TO	700 cwt	\$7.16 /cwt
From	701 CWT	TO	800 cwt	\$5.35 /cwt
From	801 CWT	TO	99999 cwt	\$4.68 /cwt

Ready

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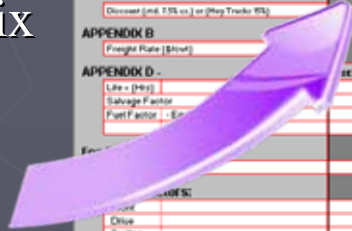
All factors from Appendix D, E, and F are entered on the “Land Based” tab.

Enter the
Equipment
description
here.

Ready SCRL

Severe Conditions, Changing Economic Climate, Older Equipment

Enter operating condition code from Appendix C in this box. Enter "1" for Average conditions and "2" for Severe conditions



Microsoft Excel - CheckRate04v06r1

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F7 UNIT #

Version 6.0

UP DATE: 31-Jul-05
VOLUME: Region 8
FILENAME: CheckRate04v06r1.xls

AREA FACTORS, APPENDIX B

GASOLINE (\$/gal) = \$3.00/gal
DIESEL OFF RD. (\$/gal) = \$3.74/gal
SALES TAX = 4.89%
DIESEL ON RD. (\$/gal) = \$2.24/gal
WORK HRS PER YR = 1,540 Hrs
LABOR ADJ. FAC = 1.00
COST OF MONEY (ADJ.) % = 4.89%
ELECTRICITY (¢/kwh) = \$0.09
WORK HRS PER WEEK = 40 Hrs

AREA FACTORS, APPENDIX B

GASOLINE (\$/gal) = \$3.00/gal
DIESEL OFF RD. (\$/gal) = \$3.74/gal
SALES TAX = 4.89%
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WORK HRS PER YR = 1,540 Hrs
LABOR ADJ. FAC = 1.00
COST OF MONEY (ADJ.) % = 4.89%
ELECTRICITY (¢/kwh) = \$0.09
WORK HRS PER WEEK = 40 Hrs

AREA FACTORS, APPENDIX B

GASOLINE (\$/gal) = \$3.00/gal
DIESEL OFF RD. (\$/gal) = \$3.74/gal
SALES TAX = 4.89%
DIESEL ON RD. (\$/gal) = \$2.24/gal
WORK HRS PER YR = 1,540 Hrs
LABOR ADJ. FAC = 1.00
COST OF MONEY (ADJ.) % = 4.89%
ELECTRICITY (¢/kwh) = \$0.09
WORK HRS PER WEEK = 40 Hrs

DATA

EQUIPMENT DESCRIPTION LINE #1
EQUIPMENT DESCRIPTION LINE #2

CONDITION

1 for average, 2 for severe

Appendix B

Freight Rate (\$/hr) = \$2.00

Appendix D

Line #1 (Hr) = 0.14%
Salvage Factor = 0%
Part Factor - En = 0.000

Appendix E

Equip. Economic Indexes

Present Year = 0
Year of manufacture = 0

Time Economic Indexes

Present Year = 0
Year of manufacture = 0

Appendix F

Time Wt = Front = 0
Time Wt = Drive = 0
Time Wt = Trailing = 0

EQUIPMENT DETAILS

List Price Yr. of Mch. = \$0

ACTUAL PURCHASE PRICE

Equipment HP = 0HP
Carrier HP = 0HP
Shipping Yr. (cost) = 0 cost

Total Tax Cost Present Yr = Front = \$0
Total Tax Cost Present Yr = Drive = \$0
Total Tax Cost Present Yr = Trailing = \$0

Fuel Equipment = 0
Fuel Carrier = 0

CALCULATIONS

Rate Calculations

Appreciation = \$0.00
Loan = \$0.00

TOTAL OWNERSHIP

Fuel = \$0.00
Loan = \$0.00

Ready

Start corp rates

Microsoft PowerPoint - [...]
Microsoft Excel - CheckRate04v06r1

SCRL

6:49 AM

Severe Conditions, Changing Economic Climate, Older Equipment

Enter factors
for Appendix
D, E, and F in
this section.

Microsoft Excel - CheckRate04v06r1

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Type a question for help

F7 UNIT #

Version 6.0

CP DATE: 31-Jul-05
VOLUME: Region 8
FILENAME: CheckRate04v06r1.xls

AREA FACTORS, APPENDIX B

GASOLINE (\$/gal) = \$2.00/gal
SALES TAX = 4.89%
DIESEL OFF RD. (\$/gal) = \$2.24/gal
DIESEL ON RD. (\$/gal) = \$2.24/gal
COST OF MONEY (ANNUAL) % = 4.89%
WORK MHS PER YR = 1,568 Hrs
LABOR ADJ. FAC = 1.00
ELECTRICITY (¢/kwh) = \$0.053
WORK MHS PER WEEK = 40 Hrs

AREA FACTORS, APPENDIX B

GASOLINE (\$/gal) = \$2.00/gal
SALES TAX = 4.89%
DIESEL OFF RD. (\$/gal) = \$2.24/gal
DIESEL ON RD. (\$/gal) = \$2.24/gal
COST OF MONEY (ANNUAL) % = 4.89%
WORK MHS PER YR = 1,568 Hrs
LABOR ADJ. FAC = 1.00
ELECTRICITY (¢/kwh) = \$0.053
WORK MHS PER WEEK = 40 Hrs

AREA FACTORS, APPENDIX B

GASOLINE (\$/gal) = \$2.00/gal
SALES TAX = 4.89%
DIESEL OFF RD. (\$/gal) = \$2.24/gal
DIESEL ON RD. (\$/gal) = \$2.24/gal
COST OF MONEY (ANNUAL) % = 4.89%
WORK MHS PER YR = 1,568 Hrs
LABOR ADJ. FAC = 1.00
ELECTRICITY (¢/kwh) = \$0.053
WORK MHS PER WEEK = 40 Hrs

DATA

EQUIPMENT DESCRIPTION LINE #1
EQUIPMENT DESCRIPTION LINE #2

CONDITION

1 for average, 2 for severe

Discount (incl. 7.5% on 1st 100 Tractor Hrs)

APPENDIX B

Freight Rate (\$/hr)

APPENDIX D

Line # (Hrs)

Severe Factor

Part Factor - Equipment

Part Factor - Carrier

Fog Factors:

Equipment & Carrier

Tire Wear Factors:

Front

Drive

Trailing

Repair Factor

Appendix E

Equip. Economic Indexes

Present Year

Year of manufacture

Tire Economic Indexes

Present Year

Year of manufacture

Appendix F

Tire Wt x Front

Tire Wt x Drive

Tire Wt x Trailing

EQUIPMENT DETAILS

List Price Yr. of Mch.

ACTUAL PURCHASE PRICE

Equipment HP

Carrier HP

Shipping Yr. (cost)

Total Tire Cost Present Yr. x Front

Total Tire Cost Present Yr. x Drive

Total Tire Cost Present Yr. x Trailing

Fog Extra

Fuel Equipment

Fuel Carrier

CALCULATIONS

Rate Calculations

Apportion

from

TOTAL OWNERSHIP

Fuel

Use

Ready

Start

corp rates

Microsoft PowerPoint - [...]

Microsoft Excel - CheckRate04v06r1

SCRL

6:49 AM

Severe Conditions, Changing Economic Climate, Older Equipment

Enter equipment details in this section.

Microsoft Excel - CheckRate04v06r1

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Type a question for help

F7 UNIT #

Version 6.0

CP DATE: 31-Jul-05
VOLUME: Region 8
FILENAME: CheckRate04v06r1.xls

AREA FACTORS, APPENDIX B

GASOLINE (\$/gal) = \$2.00/gal
SALES TAX = 4.89%
DIESEL OFF RD. (\$/gal) = \$2.24/gal
DIESEL ON RD. (\$/gal) = \$2.24/gal
COST OF MONEY (ANNUAL) % = 4.89%
WORK MHS PER YR = 1,540 Hrs
LABOR ADJ. FAC = 1.00
ELECTRICITY (¢/kwh) = \$0.053
WORK MHS PER WEEK = 40 Hrs

AREA FACTORS, APPENDIX B

GASOLINE (\$/gal) = \$2.00/gal
SALES TAX = 4.89%
DIESEL OFF RD. (\$/gal) = \$2.24/gal
DIESEL ON RD. (\$/gal) = \$2.24/gal
COST OF MONEY (ANNUAL) % = 4.89%
WORK MHS PER YR = 1,540 Hrs
LABOR ADJ. FAC = 1.00
ELECTRICITY (¢/kwh) = \$0.053
WORK MHS PER WEEK = 40 Hrs

AREA FACTORS, APPENDIX B

GASOLINE (\$/gal) = \$2.00/gal
SALES TAX = 4.89%
DIESEL OFF RD. (\$/gal) = \$2.24/gal
DIESEL ON RD. (\$/gal) = \$2.24/gal
COST OF MONEY (ANNUAL) % = 4.89%
WORK MHS PER YR = 1,540 Hrs
LABOR ADJ. FAC = 1.00
ELECTRICITY (¢/kwh) = \$0.053
WORK MHS PER WEEK = 40 Hrs

DATA

EQUIPMENT DESCRIPTION LINE #1
EQUIPMENT DESCRIPTION LINE #2

CONDITION

1 for average, 2 for severe

Decurt (and 1.5% on) or (log Trucks 9%)

APPENDIX B

Freight Rate (\$/hr)

APPENDIX D

Life = 100%
Salvage Factor = 0%
Fuel Factor - Equipment = 0.000
Fuel Factor - Carrier = 0.000

Fog Factors:

Equipment & Carrier = 0.000

Tire Wear Factors:

Front = 0.00
Drive = 0.00
Trailing = 0.00

Repair Factor

Appendix E

Equip. Economic Indexes

Present Year = 0
Year of manufacture = 0

Tire Economic Indexes

Present Year = 0
Year of manufacture = 0

Appendix F

Tire Wt = Front = 0
Tire Wt = Drive = 0
Tire Wt = Trailing = 0

EQUIPMENT DETAILS

List Price Yr. of Mch. = \$0

ACTUAL PURCHASE PRICE

Equipment HP = 0HP
Carrier HP = 0HP
Shipping Yr. (cont) = 0 cont
Total Tire Cost Present Yr = Front = \$0
Total Tire Cost Present Yr = Drive = \$0
Total Tire Cost Present Yr = Trailing = \$0
Fog Extra = \$0.00

Fuel Equipment = 0
Fuel Carrier = 0

CALCULATIONS

RATE CALCULATIONS

Appreciation = \$0.00
Fuel = \$0.00
Fuel = \$0.00

TOTAL OWNERSHIP

Land Based / Land Based Summary / Land Based Detail / Marine #1 / Marine #2 / Marine #3 / Marine #4 / Marine #5

Ready

Start

corp rates

Microsoft PowerPoint - [...]

Microsoft Excel - CheckRate04v06r1

SCRL

6:49 AM

Severe Conditions, Changing Economic Climate, Older Equipment

EQUIPMENT DETAILS

List Price Yr. of Mnfc.			\$80,000
**ACTUAL PURCHASE PRICE:			\$75,000
Equipment HP			320 HP
Carrier HP			0 HP
Shipping Wt. (cwt)			450 cwt
Total Tire Cost Present Yr = Front			\$300
Total Tire Cost Present Yr = Drive			\$300
Total Tire Cost Present Yr = Trailing			\$300
Fog Extra			\$0.00
<small>** See Instruction</small>			
Fuel Equipment:	1=elec,2=gas,3=doff,4=don	3	\$1.740
Fuel Carrier:	1=elec,2=gas,3=doff,4=don	0	\$0.000



If the equipment was purchased for less than the list price or was purchased used, be sure to list the actual purchase price.

Severe Conditions, Changing Economic Climate, Older Equipment

EQUIPMENT DETAILS

List Price Yr. of Mnfc.

\$80,000

****ACTUAL PURCHASE PRICE:**

\$75,000

Equipment HP

320 HP

Carrier HP

0 HP

Shipping Wt. (cwt)

450 cwt

Total Tire Cost Present Yr = Front

\$300

Total Tire Cost Present Yr = Drive

\$300

Total Tire Cost Present Yr = Trailing

\$300

Fog Extra

\$0.00

** See Instruction

Fuel Equipment:	1=elec,2=gas,3=doff,4=don
Fuel Carrier:	1=elec,2=gas,3=doff,4=don

3

\$1.740

0

\$0.000




HP refers to brake horsepower.

Severe Conditions, Changing Economic Climate, Older Equipment

EQUIPMENT DETAILS

List Price Yr. of Mnfc.			\$80,000
**ACTUAL PURCHASE PRICE:			\$75,000
Equipment HP			320 HP
Carrier HP			0 HP
Shipping Wt. (cwt)			450 cwt
Total Tire Cost Present Yr = Front			\$300
Total Tire Cost Present Yr = Drive			\$300
Total Tire Cost Present Yr = Trailing			\$300
Fog Extra			\$0.00
<small>** See Instruction</small>			
Fuel Euiipment:	1=elec,2=gas,3=doff,4=don	3	\$1.740
Fuel Carrier:	1=elec,2=gas,3=doff,4=don	0	\$0.000



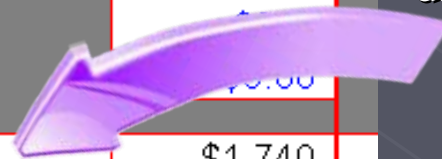
Tire prices should reflect the total present day cost for all tires. If there are 4 drive tires at \$100 each, the amount entered is \$400.

Severe Conditions, Changing Economic Climate, Older Equipment

EQUIPMENT DETAILS

List Price Yr. of Mnfc.			\$80,000
**ACTUAL PURCHASE PRICE:			\$75,000
Equipment HP			320 HP
Carrier HP			0 HP
Shipping Wt. (cwt)			450 cwt
Total Tire Cost Present Yr = Front			\$300
Total Tire Cost Present Yr = Drive			\$300
Total Tire Cost Present Yr = Trailing			\$300
Fog Extra			\$0.00
** See Instruction			
Fuel EuiPMENT:	1=elec,2=gas,3=doff,4=don	3	\$1.740
Fuel Carrier:	1=elec,2=gas,3=doff,4=don	0	\$0.000

Make sure to specify the fuel type when filling out this section. The “doff” is off road diesel and “don” is on road diesel.



Severe Conditions, Changing Economic Climate, Older Equipment

Calculations
are made
automatically
and appear in
this section.

Microsoft Excel - CheckRate04v06r1

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Arial

10

Type a question for help

D13

Version 6.6															
EXP DATE: 31-Jul-95		AREA FACTORS, APPENDIX B				GASOLINE (\$/gal) = \$0.00/gal			AREA FACTORS, APPENDIX B				GASOLINE (\$/gal) = \$0.00/gal		
VOLUME: Region 8		SALES TAX = 4.00%				DIESEL OFF RD. (\$/gal) = \$1.14/gal			SALES TAX = 4.00%				DIESEL OFF RD. (\$/gal) = \$1.14/gal		
FILENAME: CheckRate04v06r1.xls		WORK MHS PER YR = 1,568 Hrs				DIESEL ON RD. (\$/gal) = \$2.24/gal			WORK MHS PER YR = 1,568 Hrs				DIESEL ON RD. (\$/gal) = \$2.24/gal		
		LABOR ADD. FAC = 1.00				COST OF MONEY (ANNU.) % = 4.00%			LABOR ADD. FAC = 1.00				COST OF MONEY (ANNU.) % = 4.00%		
		ELECTRICITY (¢/kw-hr) = \$0.053				WORK MHS PER WEEK = 40 Hrs			ELECTRICITY (¢/kw-hr) = \$0.053				WORK MHS PER WEEK = 40 Hrs		
EQUIPMENT DETAILS															
List Price Yr. of Model:		\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
*ACTUAL PURCHASE PRICE		\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Equipment HP:		320 HP	0 HP	0 HP	0 HP	0 HP	0 HP	0 HP	0 HP	0 HP	0 HP	0 HP			
Carrier HP:		0 HP	0 HP	0 HP	0 HP	0 HP	0 HP	0 HP	0 HP	0 HP	0 HP	0 HP			
Shipping V/L (cwt)		450 cwt	0 cwt	0 cwt	0 cwt	0 cwt	0 cwt	0 cwt	0 cwt	0 cwt	0 cwt	0 cwt			
Total Tire Cost Present Yr + Front		\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Total Tire Cost Present Yr + Drive		\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Total Tire Cost Present Yr + Trailing		\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Fog Lights		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Fuel Equipment		1-refuel, 2-gas, 3-diesel, 4-none	3	\$1,140	\$0	\$0,000	0	\$0,000	0	\$0,000	0	\$0,000			
Fuel Carrier		1-refuel, 2-gas, 3-diesel, 4-none	0	\$0,000	\$0	\$0,000	0	\$0,000	0	\$0,000	0	\$0,000			
CALCULATIONS															
RATE CALCULATIONS															
Depreciation		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Tires		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
TOTAL OWNERSHIP*		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Fuel		\$228.29	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Log		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
tire wear		\$0.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
tire repair		\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
repairs		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
TOTAL OPERATING		\$228.29	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
RATES FOR 40 HR WEEK		Avg =	#DIV/0!	Avg =	\$0.00	Avg =	\$0.00	Avg =	\$0.00	Avg =	\$0.00	Avg =			
RATE FOR OTHER SPEC. HOUR		#DIV/0!	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
STANDARD RATE		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
CALCULATED FACTORS															
equipment cost (2a)		\$100,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
discount (2a-f)		\$4,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
subtotal equip. cost (2b)		\$74,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
sales tax (2b-f)		\$3,552.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
weight (2a-2)		\$2,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
adjusted equip. cost (2b)		\$74,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
tire (2)		\$0.00 gr	\$0.00 gr	\$0.00 gr	\$0.00 gr	\$0.00 gr	\$0.00 gr	\$0.00 gr	\$0.00 gr	\$0.00 gr	\$0.00 gr	\$0.00 gr			
sales price value fac. (4)		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
tire cost - gear of mtrk.		\$100.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0			
depreciation (4a)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
room calc. (A1F) (4b.1)		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
room calc. (4b.2)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
fuel cost-equip. (5a.1)		\$228.29	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
fuel cost-carrier (5a.2)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
fog cost-equip. (5b.1)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
fog cost-carrier (5b.2)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
economic adj. fac. (5c.1)		1.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
repair fac. (5c.2)		0.988	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
country repair (5c.3)		#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
tire wear cost-front (5d.1)		\$0.12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
tire wear cost-drive (5d.2)		\$0.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
tire wear cost-trailing (5d.3)		\$0.12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
SEVERE CONDITIONS															
tire (grs)		5.00 gr	0.00 gr	0.00 gr	0.00 gr	0.00 gr	0.00 gr	0.00 gr	0.00 gr	0.00 gr	0.00 gr	0.00 gr			
room calc. (6b.1)		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
room calc. (6b.2)		1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
depr. fac.		0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			


Conditions / Instructions / Area Factors / Land Based / Land Based Summary / Land Based Detail / Marine #1 / Marine #2 / Marine #3 / Marine #4 / Marine #5 / 4

Ready

Start / Canyon Rams / Microsoft PowerPoint - ... / Microsoft Excel - CheckRate04v06r1.xls / http://140.194.76.129/p... / 12:49 PM

Severe Conditions, Changing Economic Climate, Older Equipment

Cost of ownership is found in this section.



Microsoft Excel - CheckRate04v06r1

File Edit View Insert Format Tools Data Window Help Adobe PDF

D13

Version 6.8

UP DATE: 31-Jul-95

VOLUME: Region 8

FILENAME: CheckRate04v06r1.xls

AREA FACTORS, APPENDIX B

SALES TAX = 4.80%

WORK HRS PER YR = 1,548 Hrs

LABOR ADJ. FAC = 1.00

ELECTRICITY (\$/kw-hr) = \$0.053

GASOLINE (\$/gal) = \$2.00

DIESEL OFF RD. (\$/gal) = \$1.14

DIESEL ON RD. (\$/gal) = \$2.24

COST OF MONEY (ADJ.) % = 4.10%

WORK HRS PER WEEK = 40 Hrs

AREA FACTORS, APPENDIX B

SALES TAX = 4.80%

WORK HRS PER YR = 1,548 Hrs

LABOR ADJ. FAC = 1.00

ELECTRICITY (\$/kw-hr) = \$0.053

GASOLINE (\$/gal) = \$2.00

DIESEL OFF RD. (\$/gal) = \$1.14

DIESEL ON RD. (\$/gal) = \$2.24

COST OF MONEY (ADJ.) % = 4.10%

WORK HRS PER WEEK = 40 Hrs

EQUIPMENT DETAILS

List Price Yr. of Mch. \$10,000

ACTUAL PURCHASE PRICE \$7,000

Equipment HP 100

Carrier HP 100

Shipping Wt. (wt) 450

Total Tax Cost Present Yr + Freight \$200

Total Tax Cost Present Yr + Drive \$200

Total Tax Cost Present Yr + Trailing \$200

Foot Equipmt 1-1000, 2-gas, 3-doff, 4-don \$1,740

Foot Carrier 1-1000, 2-gas, 3-doff, 4-don \$1,000

CALCULATIONS

RATE CALCULATIONS

Depreciation \$0.00

TOTAL OWNERSHIP \$229.29

Fuel \$229.29

Log \$0.00

File wear \$0.34

File repair \$0.00

Log \$0.00

TOTAL OPERATING \$229.29

RATE FOR 40 HRS WEEK \$5.73

RATE FOR OTHER SPEC. HRSWK \$5.73

STANDARD RATE \$5.73

CALCULATED FACTORS

equipment cost (2a) \$10,000.00

discount (2a-1) \$5,000.00

subtotal equip. cost (2b) \$5,000.00

rate fac (2b-1) \$1,552.00

weight (2a-2) \$2,368.00

adjusted equip. cost (2c) \$7,368.00

life (2) 0.00 yrs

average value fac. (4) 0.000

tax cost gear of mch. \$100.00

depreciation (4a) 0.00

room calc. (A19) (4b-1) 0.000

room calc. (4b-2) 0.00

Fuel cost equip. (5a-1) \$229.29

Fuel cost carrier (5a-2) \$0.00

Log cost equip. (5b-1) \$0.00

Log cost carrier (5b-2) \$0.00

economic adj. fac (5c) 1.143

repair fac. (5c-2) 0.969

hourly repair (5c-3) \$0.00

file wear cost-front (5d-1) \$0.32

file wear cost-drive (5d-2) \$0.30

file wear cost-railling (5d-3) \$0.32

SEVERE CONDITIONS

life (grs) 5.19 yrs

room calc. (5b-1) 0.596

room calc. (5b-2) 1.18

dep. fac. 9.30


Severe Conditions, Changing Economic Climate, Older Equipment

Operating costs are found in this section.

[illegible]

Severe Conditions, Changing Economic Climate, Older Equipment

Total hourly rates for working machines and stand-by rates are provided in this section.



Microsoft Excel - CheckRate04v06r1

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D13

Version 6.8

UP DATE: 31-Jul-95

VOLUME: Region 8

FILENAME: CheckRate04v06r1.xls

AREA FACTORS, APPENDIX B

SALES TAX = 4.89%

WORK HRS PER YR = 1,548 Hrs

LABOR ADJ. FAC = 1.00

ELECTRICITY (\$/kw-hr) = \$0.053

GASOLINE (\$/gal) = \$2.44

DIESEL OFF RD. (\$/gal) = \$2.24

COST OF MONEY (ADJ.) % = 4.10%

WORK HRS PER WEEK = 40 Hrs

AREA FACTORS, APPENDIX B

SALES TAX = 4.89%

WORK HRS PER YR = 1,548 Hrs

LABOR ADJ. FAC = 1.00

ELECTRICITY (\$/kw-hr) = \$0.053

WORK HRS PER WEEK = 40 Hrs

AREA FACTORS, APPENDIX B

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AREA FACTORS, APPENDIX B

SALES TAX = 4.89%

WORK HRS PER YR = 1,548 Hrs

LABOR ADJ. FAC = 1.00

ELECTRICITY (\$/kw-hr) = \$0.053

WORK HRS PER WEEK = 40 Hrs

EQUIPMENT DETAILS

List Price Yr. of Mch. \$10,000

ACTUAL PURCHASE PRICE \$7,000

Equipment HP 100

Carrier HP 100

Shipping Vt. (wt) 450

Total Tax Cost Present Yr + Freight \$200

Total Tax Cost Present Yr + Drive \$200

Total Tax Cost Present Yr + Trailing \$200

Foot Equipmt 1-std, 2-gas, 3-doff, 4-don \$1,740

Foot Carrier 1-std, 2-gas, 3-doff, 4-don \$0.000

CALCULATIONS

RATE CALCULATIONS

depreciation \$0.00

room \$0.00

TOTAL OWNERSHIP \$0.00

fuel \$228.29

log \$0.00

fire wear \$0.34

fire repair \$0.00

logup \$0.00

TOTAL OPERATING \$228.29

RATEHRS FOR 40 HRS WEEK Avg = \$0.00

RATE FOR OTHER SPEC. HRSWK \$0.00

STANDBY RATE \$0.00

CALCULATED FACTORS

equipment cost (2a) \$10,000.00

discount (2a-1) \$5,000.00

subtotal equip. cost (2b) \$5,000.00

rate fac (2b-1) \$1,552.00

freight (2a-2) \$2,368.00

adjusted equip. cost (2c) \$7,368.00

life (2) 0.00 yrs

average value fac. (4) 0.000

tax cost gear of mch. \$100.0

depreciation (4a) 0.00

room calc. (A19) (4b-1) 0.000

room calc. (4b-2) 0.00

fuel cost equip. (5a-1) \$228.29

fuel cost carrier (5a-2) \$0.00

log cost equip. (5b-1) \$0.00

log cost carrier (5b-2) \$0.00

economic adj. fac (5c1) 1.143

repair fac. (5c-2) 0.969

hourly repair (5c-3) \$0.00

fire wear cost-front (5d-1) \$0.32

fire wear cost-drive (5d-2) \$0.30

fire wear cost-trailing (5d-3) \$0.32

SEVERE CONDITIONS

life (grs) 5.19 yrs

room calc. (5b-1) 0.596

room calc. (5b-2) 1.18

dep. fac. 9.30

Severe Conditions, Changing Economic Climate, Older Equipment

The tab labeled “Land Based Summary” contains a summary sheet for equipment into the Checkrate program. This tab is not on the generic version that you download from the website.

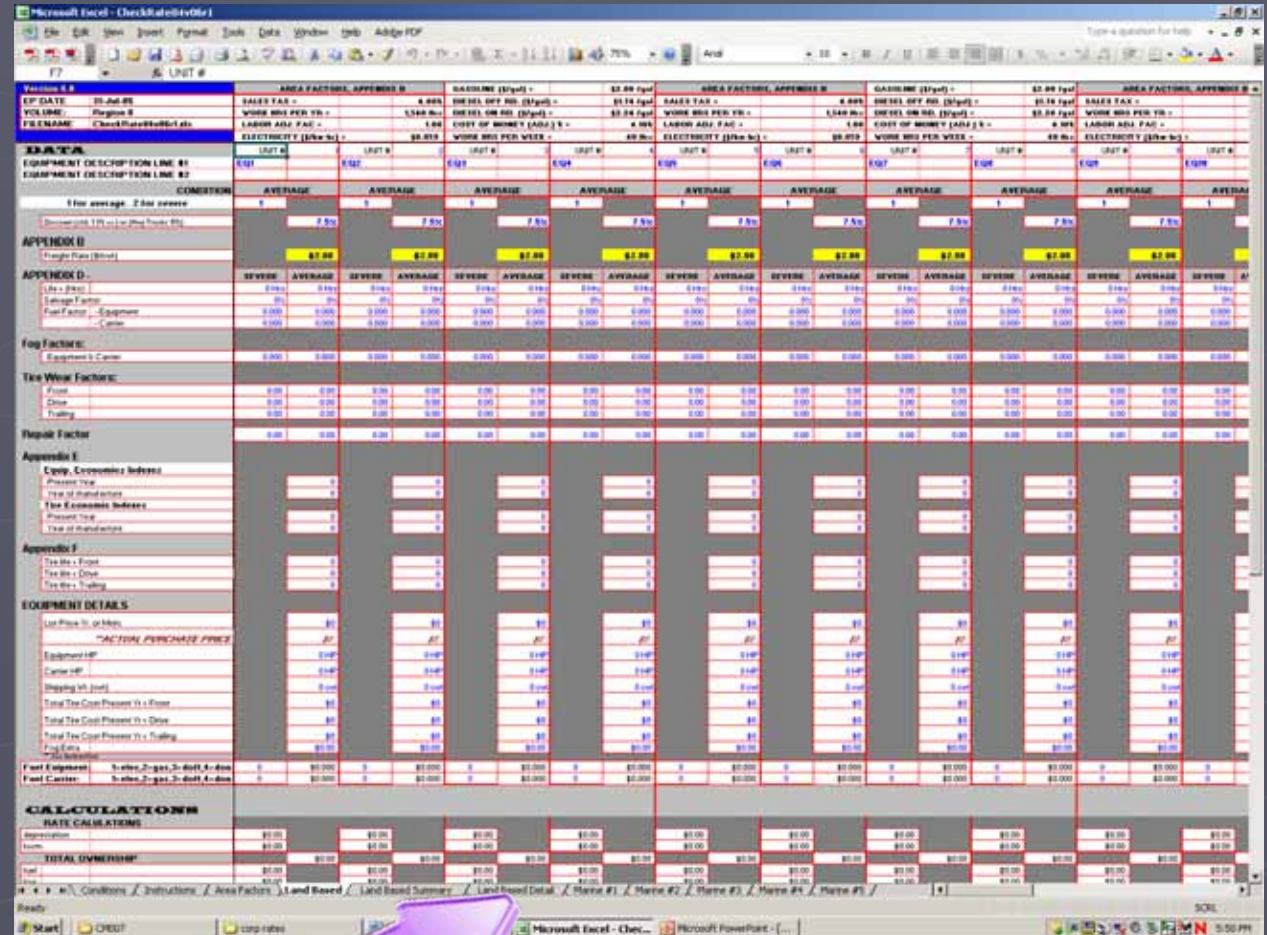
The screenshot shows a Microsoft Excel spreadsheet titled "CheckRate@v4.xls". The spreadsheet is divided into several sections: "APPENDIX A", "APPENDIX B", "APPENDIX C", and "CALCULATIONS". The "CALCULATIONS" section includes "RATE CALCULATIONS" and "TOTAL OWNERSHIP". A large blue arrow points to the "Land Based Summary" tab in the bottom tab bar.

APPENDIX A	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)
APPENDIX A	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)
APPENDIX B	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)
APPENDIX C	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)
CALCULATIONS	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)	AREA FACTORS, APPENDIX B	BASICLINE (\$/yr)

This summary sheet list each piece of equipment and all of the factors in a linear form.

Severe Conditions, Changing Economic Climate, Older Equipment

The tab labeled “Land Based Detail” contains a series of summary sheets for equipment into the Checkrate program. This tab is also not on the generic version that you download from the website.



The screenshot displays the Microsoft Excel interface for the 'CheckRate' spreadsheet. The 'Land Based Detail' tab is active, showing a series of summary sheets for equipment. The spreadsheet is organized into several sections:

- Variables:** Includes input fields for 'EQU DATE', 'VOLUME', 'EQU NAME', 'AREA FACTORS', 'BASELINE', 'EQU COST', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Equipment Description:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix A:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix B:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix C:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix D:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix E:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix F:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix G:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix H:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix I:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix J:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix K:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix L:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix M:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix N:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix O:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix P:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix Q:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix R:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix S:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix T:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix U:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix V:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix W:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix X:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix Y:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Appendix Z:** A table with columns for 'EQU DATE', 'EQU NAME', 'EQU WEIGHT', 'EQU LENGTH', 'EQU WIDTH', 'EQU HEIGHT'.
- Calculations:** A section at the bottom containing various calculation formulas and results.

Severe Conditions, Changing Economic Climate, Older Equipment

This tab list each piece of equipment and its factors on their own page.

Microsoft Excel - CheckRate04v061

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EP DATE: 31-Jul-85 Equipment Desc: EQ1
VOLUME: Region 8
FILENAME: CheckRate04v061.xls CONDITION: AVERAGE

Unit #: 1

AREA FACTORS, APPENDIX B

SALES TAX = 4.80%
WORK HRS PER YR = 1,540 Hrs
LABOR ADJ. FAC = 1.00
ELECTRICITY (\$/kw-hr) = \$0.059
GASOLINE (\$/gal) = \$2.00/gal
DIESEL OFF RD. (\$/gal) = \$1.74/gal
DIESEL ON RD. (\$/gal) = \$2.26/gal
COST OF MONEY (ADJ.) % = 4.10%
WORK HRS PER WEEK = 40 Hrs

Discount (std. 7.5% ex.) or (Heavy Trucks 15%) 7.5%

APPENDIX B

Freight Rate (\$/cwt) \$2.08

APPENDIX D -

Life = (Hrs) 0 Hrs
Salvage Factor 0%
Fuel Factor - Equipment 0.000
Fuel Factor - Carrier 0.000
Fog Factors:
Equipment & Carrier 0.000
Tire Wear Factors:
Front 0.00
Drive 0.00
Trailing 0.00
Repair Factor 0.00

APPENDIX E

Equip. Economics Indexes
Present Year 0
Year of manufacture 0
Tire Economic Indexes
Present Year 0
Year of manufacture 0

Appendix F

Tire life = Front 0
Tire life = Drive 0
Tire life = Trailing 0

EQUIPMENT DETAILS

List Price Yr. of Mvct. \$0
**ACTUAL PURCHASE PRICE \$0
Equipment HP 0 HP
Carrier HP 0 HP
Shipping Wt. (cwt) 0 cwt
Total Tire Cost Present Yr = Front \$0
Total Tire Cost Present Yr = Drive \$0
Total Tire Cost Present Yr = Trailing \$0
Fog Extra \$0.00

Fuel Equipment: \$0.000 (Other)
Fuel Carrier: \$0.000 (Other)

CALCULATIONS

RATE CALCULATIONS

depreciation \$0.00
fcom \$0.00
TOTAL OWNERSHIP \$0.00
fuel \$0.00
fog \$0.00
tire wear \$0.00
tire repair \$0.00
repair \$0.00
TOTAL OPERATING \$0.00
RATE/HR. FOR 40 HR/WEEK \$0.00
RATE FOR OTHER SPEC. HR/WK \$0.00
STANDBY RATE \$0.00

Av = \$0.00

EP DATE: 31-Jul-85 Equipment Desc: EQ2
VOLUME: Region 8
FILENAME: CheckRate04v061.xls CONDITION: AVERAGE

Unit #: 2

Ready

Start CMD07 corp rates Equipment Information R... Microsoft Excel - Chec... Microsoft PowerPoint - [...]

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Severe Conditions, Changing Economic Climate, Older Equipment

The IGE hourly rate for equipment =

ACOE Checkrate hourly rate

- + Average hourly labor rate
- + Profit
- + Overhead
- + Bond
- + Verifiable miscellaneous expenses

Leased Equipment

Information needed to determine hourly rates for Leased Equipment include:

- Monthly lease price
- Number of hours per month in lease
- Is the contractor responsible for FOG
- Is the contractor responsible for equipment repairs
- Is the contractor responsible for tire repairs

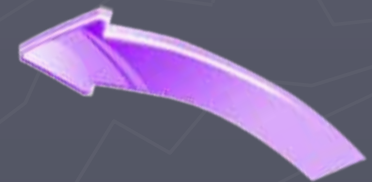
Leased Equipment

If hours are not specified in the lease agreement, divide lease amount by 176 to determine hourly rate. If hours are specified in lease, divide monthly rate by the specified hours to determine hourly rate.

Use the ACOE Checkrate Program to determine the remaining operating costs.

Leased Equipment

CALCULATIONS			
RATE CALCULATIONS			
depreciation		\$0.00	
fccm		\$0.00	
TOTAL OWNERSHIP			\$0.00
fuel		\$228.29	
fog		\$0.00	
tire wear		\$0.34	
tire repair		\$0.06	
repair		#DIV/0!	
TOTAL OPERATING			#DIV/0!
RATE/HR FOR 40 HR		Avg =	#DIV/0!
RATE FOR OTHER SPEC. HR/WK			#DIV/0!
STANDBY RATE			\$0.00



The “Ownership” cost is the calculated hourly lease rate.

Leased Equipment

CALCULATIONS			
RATE CALCULATIONS			
depreciation		\$0.00	
fccm		\$0.00	
TOTAL OWNERSHIP			\$0.00
fuel		\$228.29	
fog		\$0.00	
tire wear		\$0.34	
tire repair		\$0.06	
repair		#DIV/0!	
TOTAL OPERATING			#DIV/0!
RATE/HR FOR 40 HR		Avg =	#DIV/0!
RATE FOR OTHER SPEC. HR/WK			#DIV/0!
STANDBY RATE			\$0.00

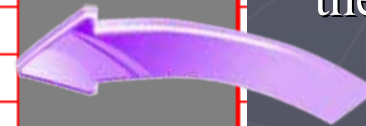


The fuel cost always counts as an operating cost.

Leased Equipment

The FOG, tire wear, tire repair, and repair cost only count as operating costs if the contractor is responsible for these costs in the lease.

CALCULATIONS			
RATE CALCULATIONS			
depreciation		\$0.00	
fccm		\$0.00	
TOTAL OWNERSHIP			\$0.00
fuel		\$228.29	
fog		\$0.00	
tire wear		\$0.34	
tire repair		\$0.06	
repair		#DIV/0!	
TOTAL OPERATING			#DIV/0!
RATE/HR FOR 40 HR		Avg =	#DIV/0!
RATE FOR OTHER SPEC. HR/WK			#DIV/0!
STANDBY RATE			\$0.00



Leased Equipment

The IGE hourly rate for equipment =

Hourly lease rate

- + Allowable operating costs
- + Average hourly labor rate
- + Profit
- + Overhead
- + Bond
- + Verifiable miscellaneous expenses

Leased Equipment

Standby rates for leased equipment should be discussed with your COE. There is no easy way to calculate a standby rate for leased equipment using the ACOE method. The ACOE method for determining standby rates is FCCM (Facilities Capital Cost of Money) rate and the depreciation rate for the equipment – both of which do not apply to leased equipment.

Average Hourly Labor Rate

Microsoft Excel - Blank IGE

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from one sheet to another

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Independent Government Estimate

For Official Use Only

LABOR SUPPORT DATA

These Labor Rates are derived from the Davis Bacon Wage Rates set forth in Section D of the project SCR's

Assumptions

Burden Rate = 28.00%

Hours worked per Week = 40.0

Labor Rates

Description	Group	Base Rate	Zone	Fringe	Standard Hourly Rate	Burden	Additional Hourly Costs	Total Standard Hourly Rate	Overtime Hourly Rate	Burden	Additional Hourly Costs	Total Overtime Hourly Rate	Average Hourly Rate
Flagger	1	\$ 11.98			\$ 11.98	\$ 3.35	\$ 5.00	\$ 20.33	\$ 17.97	\$ 5.03	\$ 0.00	\$ 23.00	\$ 20.33
Laborer	1	\$ 11.98			\$ 11.98	\$ 3.35	\$ 5.00	\$ 20.33	\$ 17.97	\$ 5.03	\$ 0.00	\$ 23.00	\$ 20.33
Laborer	2	\$ 14.41			\$ 14.41	\$ 4.03	\$ 5.00	\$ 23.44	\$ 21.62	\$ 6.05	\$ 0.00	\$ 27.67	\$ 23.44
Operator, Grader (standard)	2	\$ 17.55		\$ 3.80	\$ 21.35	\$ 5.98	\$ 5.00	\$ 32.33	\$ 32.03	\$ 8.97	\$ 0.00	\$ 40.99	\$ 32.33
Operator, Grader (finish)	4	\$ 19.32		\$ 3.74	\$ 23.06	\$ 6.46	\$ 5.00	\$ 34.52	\$ 34.59	\$ 9.69	\$ 0.00	\$ 44.28	\$ 34.52
Operator, Excavator	2	\$ 17.55		\$ 3.80	\$ 21.35	\$ 5.98	\$ 5.00	\$ 32.33	\$ 32.03	\$ 8.97	\$ 0.00	\$ 40.99	\$ 32.33
Operator, Roller	1	\$ 15.05		\$ 2.57	\$ 17.62	\$ 4.93	\$ 5.00	\$ 27.55	\$ 26.43	\$ 7.40	\$ 0.00	\$ 33.83	\$ 27.55
Operator, Back-hoe	1	\$ 15.05		\$ 2.57	\$ 17.62	\$ 4.93	\$ 5.00	\$ 27.55	\$ 26.43	\$ 7.40	\$ 0.00	\$ 33.83	\$ 27.55
Operator, Loader	2	\$ 17.55		\$ 3.80	\$ 21.35	\$ 5.98	\$ 5.00	\$ 32.33	\$ 32.03	\$ 8.97	\$ 0.00	\$ 40.99	\$ 32.33
Operator Dozer	2	\$ 17.55		\$ 3.80	\$ 21.35	\$ 5.98	\$ 5.00	\$ 32.33	\$ 32.03	\$ 8.97	\$ 0.00	\$ 40.99	\$ 32.33
Power Broom Driver	2	\$ 19.01			\$ 19.01	\$ 5.32	\$ 5.00	\$ 29.33	\$ 28.52	\$ 7.98	\$ 0.00	\$ 36.50	\$ 29.33
Truck Driver/End Dump	2	\$ 19.01			\$ 19.01	\$ 5.32	\$ 5.00	\$ 29.33	\$ 28.52	\$ 7.98	\$ 0.00	\$ 36.50	\$ 29.33
Truck Driver/Water Truck	2	\$ 19.01			\$ 19.01	\$ 5.32	\$ 5.00	\$ 29.33	\$ 28.52	\$ 7.98	\$ 0.00	\$ 36.50	\$ 29.33
Truck Driver/ Low Boy	3	\$ 16.07		\$ 4.11	\$ 20.18	\$ 5.65	\$ 5.00	\$ 30.83	\$ 30.27	\$ 8.48	\$ 0.00	\$ 38.75	\$ 30.83
Truck Driver/ Belly Dump	3	\$ 16.07		\$ 4.11	\$ 20.18	\$ 5.65	\$ 5.00	\$ 30.83	\$ 30.27	\$ 8.48	\$ 0.00	\$ 38.75	\$ 30.83
Concrete Finishers		\$ 16.35		\$ 3.71	\$ 20.06	\$ 5.62	\$ 5.00	\$ 30.68	\$ 30.09	\$ 8.43	\$ 0.00	\$ 38.52	\$ 30.68
Carpenter		\$ 15.00			\$ 15.00	\$ 4.20	\$ 5.00	\$ 24.20	\$ 22.50	\$ 6.30	\$ 0.00	\$ 28.80	\$ 24.20
Mason					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ 0.00
Two man survey crew					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ 0.00

Laborer Group 1: Concrete worker, fence installer, guardrail, sign installer, form setter/shipper, general labor, flagger, pilot car driver, stake hop

Laborer Group 2: Asphalt rake/finisher, cement mason tender, concrete saw, maintainer for traffic control, mortar man, sand blaster nozzle man,

Instructions / Project and CM Data / Background / Equipment Rates Quoted / Labor rates / Time Support / IGE SUMMARY / Haul Cals

Ready

Contract Modifications / corp rates / Equipment Information ... / Corps Rates Info sheet / Copy of CHECKRATE / Blank IGE

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Source Materials



Publication Number: **EP 1110-1-8**

Construction Equipment Ownership and
Operating Expense Schedule, Region IV

<http://140.194.76.129/publications/eng-pamphlets/ep1110-1-8%28vol4%29/toc.htm>



Check Rate Program

<http://www.nww.usace.army.mil/cost/checkrat.asp>